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- Pyromania** - The ultimate CD-ROM for Amiga animation

SYSTEM

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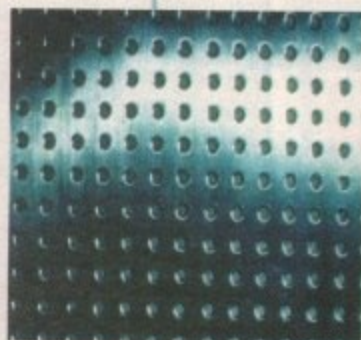
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ArcticAtac

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Music Samplers etc.



Megalosound is the new 8-bit, stereo, direct-to-disk sampler package; the software is packed full of easy-to-use editing features, special effects and extras such as the ability to print waveforms and sample information.

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AudioMaster IV is regarded as the de-facto standard in sound sampling and editing software. With its incredible range of features and clear, informative displays, it is hard to beat as a sound editing system.

AudioMaster IV is compatible with Megalosound and any other sound sampling hardware that connects through the Amiga's parallel port. Please call for further information.

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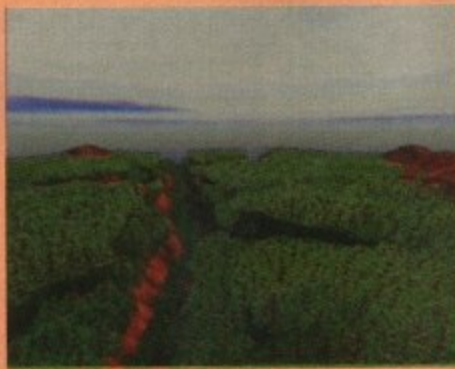
The ideal MIDI interface for all Amigas, this smart-looking device comes with MIDI in, MIDI thru and two MIDI out ports and is complete with manual, software and a flying cable for convenient positioning.



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VideoMaster A600/A1200	£59	SBase Professional 1.3n	£139
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Commodore's creditors gather to do battle

NASSAU, Bahamas, July 19 — Le Meridien, a graceful resort hotel on fashionable Cable Beach, hardly seems a spot for a fight. It is a place of manicured lawns, swaying palms, sandy beaches and emerald water. Travellers normally come here for the relaxing pleasure of the tropics and fine dining at the hotel's gourmet restaurant.

But suddenly on Friday, amidst the usual gathering of sun-tanned women in bikinis and men in shorts, appeared a small army of two dozen lawyers, mostly men in dark suits bearing over-stuffed briefcases.

They came to do battle over the carcass of Commodore International Ltd, the once mighty maker of small computers which had its North American headquarters in West Chester. They came for the first official meeting of Commodore's Bahamian committee of creditors.

It is a fight over the company's assets, over the future of its technology, over how much of its \$145 million debt will be paid and, not surprisingly when lawyers get together, over legal jurisdiction.

Commodore, whose stock was traded on the New York Stock Exchange until May, was registered in the Bahamas, and the company initiated its own liquidation in the Bahamian Supreme Court.

The court-appointed Bahamian liquidators so far have received at least four proposals to buy Commodore, including one from the management team, its subsidiary in the UK, the only one of the company's units still profitable when the firm went out of business.

The other suitors are Amstrad Plc, a UK computer firm; Philips Electronics of the Netherlands, and Samsung Electronics of Korea.

But before there is a sale, lawyers for Commodore's principal creditors would like to have the bankruptcy proceedings moved, or at least have parallel proceedings opened in the US Bankruptcy Court in New York.

"The biggest problem we are having is that the Americans don't trust the Bahamians to do the liquidation," said Paul L Adderly, the attorney for the two liquidators.

"What can you do about that?" asked Adderly in exasperation. "We are not entirely ignorant of these matters in the Bahamas."

But lawyers for the main creditors see things differently. It is not just the competence of the Bahamians they have called into question, but the efficacy of Bahamian law.

Under Bahamian law, a creditor's committee has an advisory role while under US law, the creditors

would have more of a say over final disposition of the assets.

Also, Bahamian law permits the liquidators to go back and judge, and possibly reverse, management actions involving assets three months before bankruptcy was declared. American law permits a year.

So far, the Bahamian court has rejected motions from the creditors to have the proceedings moved to New York.

Meanwhile, the creditors are seeking a ruling in US Bankruptcy Court in the Southern District of New York to seize jurisdiction or at least open parallel proceedings.

The principal opposing creditors are Prudential Insurance Co. of America and a subsidiary, Pruco Life Insurance Co, both of Newark, NJ, which are owed a total of \$28 million; Anchor National Life Insurance Co of Los Angeles, owed \$6 million, and Daewoo Telecom and Daewoo Corp of Korea, owed \$15 million.

The creditors have questions about actions taken by the Commodore management team shortly before and right after the liquidation filing in the Bahamas on May 2.

They want to challenge management's transfer of a Commodore unit from one subsidiary to another,

and they have questions about the conduct of Commodore's former president, Medhi R Ali.

Ali tried to get Prudential and Daewoo to agree to allow liquidation proceedings to go unchallenged in the Bahamas, in return for a vague promise that they would get 50 cents on every dollar of debt.

According to an affidavit filed in the Bahamian Supreme Court by Stephen M Richmond, an attorney representing the creditor's committee, Ali claimed he had a foreign buyer for the company and the sale would proceed quickly if there was not a legal tangle in New York.

Richmond, a gruff Boston-based lawyer, said that Ali refused to tell him who the potential purchaser was or what the terms of the sale were.

Ali is no longer associated with Commodore. Reached Monday by telephone at his home in Ridgefield, Connecticut, and asked for comment, Ali shouted, "You're intruding on my home. I'll complain to your editor. You're an idiot." He then hung up.

The Bahamian court-appointed liquidators are Franklyn Wilson and McGregor Robertson, two partners in the Bahamian offices of Delotte & Touche, a major accounting firm.

Wilson said on Monday he hoped to complete the sale of Commodore's assets "very quickly", but he declined to be more specific.

Amid all the men in dark suits last week was a bearded, casually dressed British national, David Pleasance, managing director of Commodore's UK subsidiary and a leader of the management team trying to buy all of the company.

"We might as well try. We have a good business in the UK, a very good business," said Pleasance, who came to the Bahamas to get to know the company's major creditors.

If the management buyout is successful, Pleasance said operations would be moved to England, but that the company would like to keep research and development facilities in Norristown.

"These are very good people," Pleasance said. "We would like to keep them."



Medhi Ali: Questions about conduct

● This text was reprinted with kind permission from Dan Stets, its writer, and the Philadelphia Inquirer.

NEWS BRIEFS

FAST retirement

The Federation Against Software Theft has announced that its chief executive, Bob Hay, is retiring after nine years of service. He leaves to spend time with his wife who has been seriously ill over the last several months.

David Svendsen, board chairman of FAST and managing director of Microsoft Ltd, added, "To many in our industry, Bob has been the public face of FAST and everyone will miss his single-minded goal of establishing a moral and legal environment in which to use software."

Svendsen concluded by saying: "Under his leadership, Bob has taken FAST from inception to the most successful anti-piracy body in the world."

Health concern

For those computer users who regularly spend hours on the keyboard staring at a screen, the London Advice Services have released a factsheet on health and safety when operating a computer.

The Computanews pamphlet offers advice on what the risks are, what the user needs to do to create a better environment and what the laws say concerning employers responsibility to its staff.

The factsheet costs £3 and is available from LASA on 071-377 1226.

Full house

After the somewhat troubled start of the European Leisure Software Publishers Association's [ELSPA] ratings system, the group has announced that all 63 members of the association have given their full support and adopted the scheme.

This includes Acclaim, publishers of the controversial *Mortal Kombat*, who, after much publicised deliberation, have agreed to carry the ELSPA age suitability ratings.

Robotics report

According to research company Dataquest, US Robotics is now UK market leader in high speed modems, with a 16.5% share.

"We have gone from 15th in 1990 to number one in 1993. The figures tell their own story," commented US Robotics managing director, Clive Hudson.

For more details on US Robotics modems, call Lucy Brown on 0753 811180.

New bidders step forward

After the surprise announcement last month that various members from Commodore were attempting their own buyout, a rumour has surfaced that Steve Franklin, former managing director of Commodore UK, is also making a bid for the company.

Franklin declined to comment on the situation. David Pleasance, the current UK managing director, thinks "it's highly unlikely" that the former head is in a position to offer a substantial bid.

Pleasance's own plans are apparently moving forward and he hopes that the question of Commodore's future will be resolved "in the next two to three weeks." He believes that their offer is the highest and feels confident of a successful result.

According to an article in the *Chicago Tribune*, both Amstrad and Philips have lost interest in a buyout, partly down to the legal delays. Samsung is interested in the intellectual-property rights of Commodore's products, but is dismissive with the computer firm's inventory or other products.

A potential buyer has appeared in the shape of Creative Equipment International based in Miami, who are in the process of submitting a bid. "There is a pent-up demand for the product," CEI president Alex Amor commented. "I think it can be very successful if it is brought back to the market."

The legal tanglings over the liquidation though are causing serious concerns with people close to Commodore. "The urgency arises because we are dealing with an asset which is perishable," said Franklyn Wilson, a liquidator in Bahamas.

"It is an industry where change is the greatest constant. This technology needs to be constantly updated to stay current."

Raptor increases in power and speed

With the reputation of Raptor's quality and results, makers of the graphics work stations, Desk Station, have released two new models. The Raptor II and the Raptor Plus are seen by many as the next step for serious graphic artists and television production.

The Raptor Plus features MIPS RISC R4600/133MHz rendering engine that the company claims increases the rendering performance by 50 per cent over the original work station.

The Raptor range is available to buy through Ramiga International who can be contacted on 0782 398840.



Raptor Plus: Twice the speed of the original graphics work station



Primera Pro: Offering the latest in printer technology

Printer paradise

Announced at the recent MACWORLD Expo in Boston, the new PrimeraPro colour printer is a high spec, low-priced machine that is compatible with the Amiga.

Featuring dye-simulation and wax thermal output at 600*300 dpi, Fargo – the company behind the new hardware – claim that the printer is the first in its kind to offer such a high dpi.

Costing \$1895 in the States, the PrimeraPro can also print on a variety of different surfaces, from laser paper and transparency film to dye-sublimation media and T-shirt transfer paper.

Amiga Computing will be reviewing the product next month and Fargo, the makers of the Primera Pro, can be contacted on (612) 941 9470.



Competition: One of the many entries already received

Competition boasts hologram prize

In a bid to show PC users and high-priced platforms what the Amiga is capable of, the 24 Bit Club has launched a competition for Commodore owners to send in their best 3D work. There are three categories for entry – science fiction/fantasy, photo realism and organic/abstract.

The winner from each will have their rendered masterpieces turned into a hologram by Munday Spacial Imaging, and most entries will find their way on to a video to be produced by the 24 Bit Club of the best work they receive.

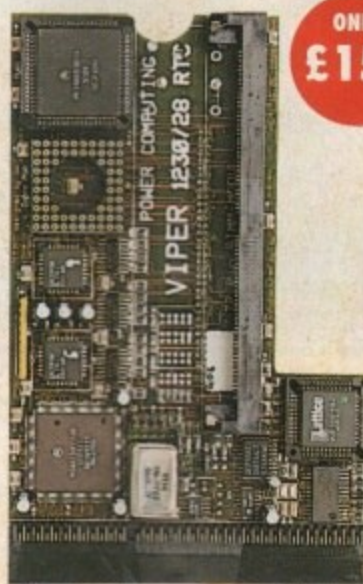
For more information and an entry form, phone John Campbell on 041-946 2191.

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Beware, flickering LED's on your disk drive mean that the drive has not been modified by Sony for 100% Amiga compatibility.

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Amiga designer passes away

With the future of Amiga in doubt, its original creator, Jay Miner, passed away on June 20 in California. His lifelong kidney problems finally took his life.

Seen as the Father of the Amiga, Jay had a long and accomplished career – he helped design the Atari VCS games console and was an integral member of the team that created the original Amiga chipset.

His later achievements included the Atari Lynx, an under-rated handheld that today, in terms of technological excellence, outshines its portable counterparts in the market.

Long may his Commodore creations continue.

Communicator II

Only a few months after the release of the Communicator, the Netherland-based company Eureka have announced the imminent arrival of its sequel – the Communicator II.

The original hardware allowed the connection of the CD32 to any Amiga and PC. By using the CD32 as a serial 2-way CD-ROM drive, multimedia presentations including FMV (through the use of the FMV cartridge), Photo CD's and audio can be controlled and created.

The Mark II version improvements include an extra keyboard plug for A2000/3000, a serial cable that is now a DB25 serial to RJ10 plug and a new casing design.

Extra software has also been introduced from Mediapoint that aids audio and video control to a variety of PD titles.

The Communicator II costs approximately £99 and will be reviewed in next month's *Amiga Computing*.

Flexidump upgraded and improved

Care Electronics, makers of Flexidump 3, have released an enhanced version of the program which the company claims can remove banding and white lines from all dot matrix and bubble jet printers. The company says that ribbon life is extended and print quality is very consistent.

The new system, called "shingling," adds to the recent additions of dithering and anti-aliasing in the latest version. Anyone with Flexidump 3 that doesn't include the "shingling" option can upgrade free of charge.

For those with an earlier version of Flexidump an upgrade is available for £14.95. Care Electronics can be reached on 0923 894064.

Silica extends warranty



Silica: Offering a comprehensive warranty scheme

In a bid to provide a better deal for the customer, Silica have introduced a comprehensive extended warranty on its products, including games consoles, with the launch of "SilicaCare".

The scheme provides repair and replacement of parts, including major hardware such as hard drives and monitor tubes, for a single or whole computer system.

The warranty can be arranged for up to five years, tailoring the needs of the individuals. If you have an Amiga computer system worth up to £1500, for a two year policy it costs £38 for free repairs, delivery and courier service.

"As high-tech games consoles and computers become a part of everyday homes, more non-technical users want the assurance of a total service package.

"SilicaCare provides them with the peace of mind that should anything go wrong, it will be immediately fixed," stated Silica's retail controller, Ken Browning.

For more details, phone Silica Systems on 081-309 1111

More add-ons for Lightwave

As Lightwave PAL finally reaches the shores of the UK, the 24Bit Club is releasing the Lightwave Collection Sets 1 & 2 to aid artists with their work.

Costing £29.95 each, each set contains 10 disks filled with objects, scenes, fonts and textures and comes complete with a user guide.

For the £3.95 sampler disk containing various examples from the collection, contact Gordon Keenan on 041-946 2191.



Lightwave Collection: A variety of images to be used with the top-rated graphics software

Bulletin boards made easy

To combat the tedium of BBS login screens, a group of Sysops [system operators] have decided to create MAXlink, a networking bulletin board. The idea behind the scheme is once a user has joined and all their details have been taken, the data is passed on to all the other MAXlink BBS.

This in turn provides instant membership to all the bulletin boards under the MAXlink banner and saves the user time and money.

Art by the people for the people

The Digital Gallery is a new concept being put forward by PUMECO which allows magazine readers to send their computer generated artwork in for inclusion on a four hour video.

Presented as a slideshow, artists – part-time or otherwise – can submit their work with a £20 fee and have the opportunity to show off the fruits of their labour to the public.

There is no age restriction and for further information, call PUMECO on 0482 500597.

Online growth

With the continual enlarging of CompuServe's facilities, this month sees the introduction of the on-line service UK Professionals Forum, which focuses on the needs of key professional groups in Britain.

At present, the forum has areas for members of the legal, medical, engineering, financial, marketing and media professions. The various fields are catered for via the use of message sections and libraries and CompuServe hope that the new service will encourage the involvement of the appropriate national bodies.

To join CompuServe, phone 0800 289378 for more details.

Heard the latest?

Have you heard any interesting Amiga news recently? If you've picked up some hot gossip that you think we could be interested in give Adam Phillips a call now on 0625 878888.

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Brilliance " Brilliant " Graphics Paint Package " In terms of design and sheer specifications Digital Creations really seem to have done everything right. Effectiveness... " 99%." I really can't fault the end results" - **CU Amiga Review**
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Amiga CD32 Comes with 2 **GREAT GAMES** Microcosm and Chaos Engine and whilst stocks last Oscar, Diggers and Wing Commander. CD32 will play your favourite Music CD's

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Commodore List Price

£229.99

While we've all been closely watching Soft-Logik to see when they'd release the much-awaited PageStream 3.0, the company slipped a surprise upgrade out the door. TypeSmith, the premier font editor for the Amiga, has been updated to version 2.5.

The biggest improvement in this new version is the addition of support for TrueType fonts. TrueType is the standard outline font system on both the Macintosh and Microsoft Windows, so you can find the fonts just about everywhere. (On this side of the pond, you can buy a CD-ROM with over 500 TrueType fonts for only \$19.95!)

Although no Amiga applications directly support TrueType typefaces, TypeSmith will let you convert them to formats that can be used with Amiga applications such as PageStream, WordWorth, Final Writer, Brilliance, and LightWave 3-D.

TypeSmith 2.5 supports saving and loading fonts in TrueType, PostScript Type 1, Compugraphic Intellifont (the Amiga's native bitmap font format), Soft-Logik, and IFF RFF formats. You can create your own fonts, or automatically trace digitized font pictures or bitmap fonts.

With previous versions of TypeSmith, converting large batches of fonts was a tedious operation, forcing you to select each typeface individually.

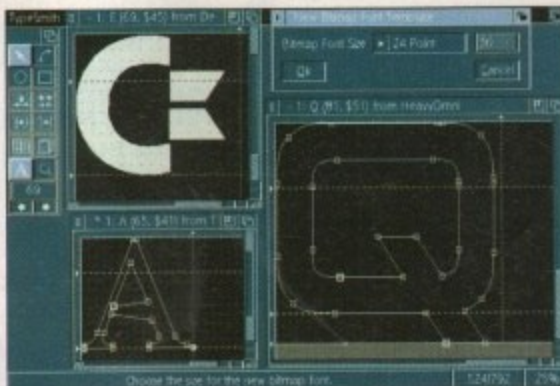
TypeSmith 2.5 adds a new Batch Convert ARexx macro that lets you convert an entire directory of fonts with the press of a single key. Full AmigaGuide help makes using both new and old features a snap.

The program retails for \$199.95. If you own TypeSmith 2.0, you can upgrade for \$25 plus shipping and handling (\$5 USA/Canada, \$15 International); TypeSmith 1.0 owners pay \$65 plus shipping and handling.

For more information, contact Soft-Logik, 1113F South Towne Square, St. Louis, MO 63123 USA; phone (314) 894-8608; fax (314) 894-3280; or e-mail tech@slpc.com.

Denny Atkin reveals the release of the all-new TypeSmith and views two other important upgrades

Tales of the unexpected



The Amiga's ultimate font editor enjoys yet another impressive upgrade

New light through new windows

Hot on the heels of the release of the standalone LightWave 3D 3.5 for the Amiga, NewTek has announced LightWave 4.0. Like version 3.5, this release won't require a Video Toaster board.

But unlike earlier versions, this one doesn't even require an Amiga — it's also available for Windows, Windows NT, and Silicon Graphics (SGI) machines. The \$145 upgrade price from version 3.5 allows you

to update to version 4.0 on the platform of your choice.

LightWave 4.0 will offer the same basic features set on all platforms, as well as full cross-platform compatibility. This means that you could, for instance, create a complex scene on your Amiga at home, save it to disk, and take it to work where you could render it on a blazing-fast Pentium 90 or SGI system.

Like Axiom, NewTek has stressed its commitment to future Amiga development. "The majority of our user base currently use Amigas, and many users prefer it for desktop video and graphics applications," says NewTek's Tim Jenison.

"However, users on other platforms wanted LightWave's power on their machines, and we wanted to have LightWave keep its position as the professional standard in 3D graphics."

LightWave has been used to create graphics for many popular television programs, including Star Trek: The Next Generation, SeaQuest DSV, Babylon 5, Robocop, Viper, Unsolved Mysteries, and Weird Science.

Babylon 5 won an Emmy (the US television equivalent to an Oscar) last year for its LightWave-produced graphics.

EA titbit

Although nothing's been announced, Electronic Arts' Orlando Guzman recently popped up on the CompuServe network asking what the users there would expect from a new version of DeluxePaint.

So it appears Electronic Arts is still working on DeluxePaint V for the Amiga, despite Commodore's situation.

Have a feature you're dying to see in the next DPaint? Send your electronic mail to oguz@ea.com and let him know.

Pixel power

Axiom Software has completely rewritten their 3D object designer program, Pixel 3D, from the ground up. The new version, Pixel 3D Professional Version 2 (Axiom calls it PixPro2 for short), has an improved interface and sports many powerful new features.

Axiom's president, Scott Thede, promises that, unlike some US companies, Axiom will continue to develop products for the Amiga. "To be completely honest," he says, "we at Axiom Software wish we could program the Amiga for the rest of our lives; after all, it takes 'forever' to learn how to program the thing!"

Amiga 1200 and 4000 owners will be happy to see full AGA support in PixPro2, taking advantage of the higher resolutions and deeper palettes available on those machines.

The program now has full support for both PostScript fonts and PostScript files. Bitmap support is amazing, with an artificial-intelligence bitmap-to-3D conversion, simplified bitmap smoothing, and the ability to link to ASDG's Art Department Professional to automatically convert 24-bit files.

Creation of 3D objects is simple, with both point editing and polygon painting techniques available. Objects can be twisted, stretched, and bevelled. Complete ARexx support makes batch processing simple, and object hierarchies simplifies working with complex 3D structures.

PixPro2 handles loading, saving, and conversion of 17 file formats, including LightWave scenes, Imagine hierarchies, AutoDesk 3D Studio binary and ASCII formats, and WaveFront.

Axiom says that PixPro2's AutoCAD DXF support is the most comprehensive available on the Amiga.

A professional program, PixPro2 retails for \$299.95. Upgrades from version 1.0 are \$99.99. For more information, contact Axiom Software, 1526 122nd Street, Burnsville, Minnesota 55337 USA; phone (612) 894-0596; fax (612) 894-1127.

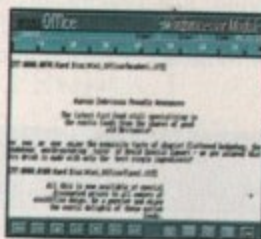
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Graphics: Enter data directly or load from the spreadsheet or database; produce pie charts with exploded segments; display bar charts side by side or stacked; overlay your graphs on an imported IFF picture; add a 3D view; add text or lines... and more!



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Mini Office works on all Amigas with 1 megabyte RAM, can read Amiga IFF files and for US users, fully supports the NTSC standard.

A console too far?

→ **T**he CD32 always had one thing going for it. Despite not being exactly the most profound step forward in technological history and perhaps even a little cynical with its 1200 innards with attached CD drive, the console was and still is, albeit with an ever dwindling supply, in the shops.

Compared to some of the heady spec-listed delights of the 3DO, Jaguar, Sony PlayStation, Sega Saturn, Nintendo Ultra 64 and so on, the Commodore machine is looking positively Jurassic.

While most of the above machines are not yet available, there's enough food for thought there to make one wonder if the soon-to-be reborn Commodore should even bother with the console market and concentrate their R&D on what they do best – making home computers.

With the likes of Panasonic, Sony and Sanyo moving in to the gaming arena flexing their rather financially well-developed muscle, a company like Commodore which, as we all know is having a rather difficult time of it at the moment concerning cash flow, may well be in a position, even with a new buyer, where they simply can't compete.

Up until last year, the market-place was dominated by Nintendo and Sega but with huge corporate industries swooping in to clean the market place up, what real hope has the CD32 got in the grand scheme of things?

While the console is doing well in Britain, the market here is small fry compared to the all important US and Japanese sectors where the real money is made.

Another argument is the kind of software that is available for the machine. While David Pleasance of Commodore UK may well be telling us that there are plenty of CD32-specific titles winging their way to the grey lunchbox, punters in the meantime are consistently having to put up with the usual port overs from the A500 and 1200.

The words FMV ring out in defence but alas, nothing has appeared across any format to warrant the splashing out of the extra cash. Okay, this leaves us with the apparently huge market for music and video CDs that can be plugged straight in to your machine.

This may well be the best hope for the Commodore machine but again, is it enough with a household that usually boasts a video recorder and stereo system anyway?

For a CD32 with FMV, it'll end up costing

Adam Phillips asks what kind of future the CD32 can expect in the hands of the looming multi-corporate competition...



round £450 plus money for a decent set of speakers to get the most out of the image and music-playing facilities.

So with all this negative reinforcement, what can Commodore do once it's found a buyer? Let's say that the most likely option of a management buyout does go ahead – there will be very little money for continuing production lines, let alone sinking cash in to R&D.

How can the once great company that used to steal the limelight on the small amateur dramatics stage of computing face the full blown, all dancing and singing production of some of the largest companies on the face of the planet?

FRUITFUL

By concentrating on what Commodore do best – home computers. Whether sailing on the sweet breeze of success or drowning in the choppy seas of the ill-fated DOS attempt, the Amiga range in Europe has continually been buoyant and fruitful.

Indeed, could the CD32 turn in to another hopping-on-the-bandwagon disaster where Commodore simply don't have the financial clout to get their product seen or heard about.

The CD32 may well hold the market share in the UK over the Mega CD and PC CD-ROM but, in real terms, the market-place is tiny at the moment.

Take your average home computer buyer.

When they wander down to the nearest Dixons, they no longer have a choice. With the Atari ST and Falcon well and truly buried under a heap of bad management and diabolical marketing, it has left Commodore in a prime position for tempting the low-price bracket buyer.

You have a choice. Either cough up over £1,000 for a PC that may be redundant in three years unless you splash out more money on a mother board upgrade, or buy an inexpensive home computer that can word process, DTP, play games and has consistent and impressive software support – the A1200 and beyond.

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The Official Amos PD Library is the largest source of Amos related source code and programs in the world today. The library is run by Len & Anne Tucker and is endorsed by Europress Software, the publishers of Amos and Amos Pro. This compact disc contains the entire library from disk 1 to 620, each one arranged in it's own directory and catalogued. The disc contains in excess of 33,000 files with over 1600 Amos source code files, 100 sprite banks, 260 Ctext banks, 800 samples, numerous music banks and several extensions to Amos & Amos Pro. Workbench is also included as are Parnet and Sernet to allow transfer of the contents across a network from both the CDTV and the CD³². This CD is truly a testament to the immense following that Amos and Amos Pro has achieved in the past few years and represents thousands of man hours of writing Amos code which will prove to be an invaluable source of help and tuition to the Amos user. Weird Science is proud to bring you this remarkable resource for only **£19.95**

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De-archiving applications - Workbench 2.0 and above

Always boot from your CoverDisk when de-archiving applications. The installer programs can be located via the install icon with the appropriate name in the WB_2&3_Only drawer.

The de-archiving procedure has been much improved and now combines the power of the official Commodore installer program with that of Workbench 2.0 and 3.0.

The installer program is designed to be powerful yet simple for the beginner and features a user-friendly interface allowing you to de-archive programs with a minimum amount of fuss. The installer programs for Workbench 2 and 3 users can be located via the icons named:

```
Install[program name]
```

eg:

```
InstallPFM
```

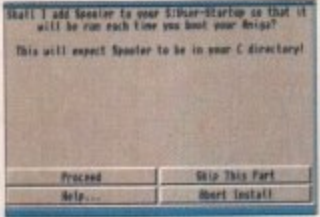
To run, simply double click on the icon which will load up the installer program.

Using the installer

Ignore the buttons that appear when the installer program boots up and simply click on the Proceed button. The program will then copy the necessary files to RAM.

Once this has finished it will inform you that it is about to format a disk in DF0. Click

Don't forget to insert a blank disk at the prompt and before pressing Proceed



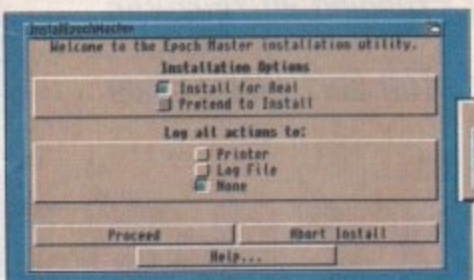
Any commands that need to be added to your User-Startup can be done with the press of a button

The Files drawer contains all the utilities set up so that you can use them from the CoverDisk. A Games drawer is also provided so that you can play these immediately. If you want to install the games make sure you copy all the necessary files across as listed in the CoverDisk pages.



The Amiga Computing CoverDisk is designed to be as simple to use as possible. Follow these instructions and you'll be up and running in no time!

We have now managed to fix the problem with AmigaDOS displaying a "disk is write protected" requester when a write-enabled disk is inserted. Just make sure you insert a blank disk when the installer programs tell you - and not before or after.



Don't worry about the installer options. Simply click on the Proceed button



The Workbench 2.0 and 3.0 installer icon

De-archiving applications - Workbench 1.3

Always boot from your CoverDisk when de-archiving applications. The installer programs can be located via the install icon with the appropriate name in the WB_1.3_Only drawer.

```
Install[program name]_1.3
```

eg:

```
InstallPFM_1.3
```

When you load up the 1.3 installer the program will first prepare itself ready to de-archive the program to a

blank disk(s). You will then be asked to insert a disk to be formatted into DF0 and either press y to continue or n to abort.

Provided you answer y, the disk you insert will be formatted and the application de-archived.

Installing utilities

You should first run the MakeUtilitiesDisk_1.3 to format a blank disk called ACUtilities which will be used to store any utilities you eventually install.

This disk can be used with future CoverDisk utilities until it becomes full. The MakeUtilitiesDisk1.3 program will be a permanent feature of the CoverDisk.

To install any utilities, boot your machine with your CoverDisk inserted in DF0. Utilities can be installed by clicking on their install icon found in the appropriate drawer in the WB_1.3_Only drawer. You cannot specify their destination and any additions to the Startup-Sequence must be done manually.

When installed the utilities are copied to a drawer called ACUtils on the ACUtilities disk.

Installing utilities

The procedure for installing utilities is much the same as installing applications, except that you can boot from your hard drive or Workbench disk. As utilities don't need to be de-archived, you are asked to specify a directory on your hard drive or Workbench disk where you would like to install them.

If you don't want to install to the default directory you can change it by clicking on Change Destination. The Show Drives button will allow you to select a new device and directory. You can create a new drawer for your utility to go in by clicking on the Make New Drawer button and typing in the name.

You can also make a utilities disk by running the MakeUtilitiesDisk1.3 program located in the WB_1.3_only drawer and installing your utilities to here. At times you may be asked if you want to install a utility's documentation. A tick box indicates that the documentation is selected for inclusion, but you can click on the box to ignore it or simply click on the Skip This Part button.

The utility installer programs can be found in the appropriate program drawer in the WB_2&3_Only drawer.

You can easily install documents and create new drawer thanks to the installer's user-friendly interface



After inserting a blank disk press y to continue or "n" to abort



THE Cover

If your favourite pastime is creating stunning graphical images, whether 2D or 3D, you will know what a time-consuming task it is drawing natural looking images such as clouds, rock, water etc.

Thanks to The Soft Alternative, *Amiga Computing* has supplied 19 superb, photo-realistic images taken from a variety of subjects.

Using these images with your favourite graphic applications, you can breath new life into your designs, creating realistic images in half the time.

The textures have been compressed in Jpeg format so that they can fit onto our CoverDisk. Therefore you will need a suitable Jpeg viewer to view them.

As they are in 24-bit format, non AGA owners will need to have a 24-bit card to view them. However, we have also supplied a superb program called HAMLabPlus on CoverDisk 2 which you can use to view the images and change them into a format your applications can load.

Just follow the instruction given for HAMLabPlus to see how you can use your textures.

We have supplied a variety of images encompassing natural elements, as we believe these are the most difficult to emulate. These include clouds, water, rock, sand, space and landscapes.

The textures are primarily of use to those interested in 3D rendering, but they work just as well as backdrops or brushes in Deluxe Paint, Brilliance, Personal Paint and other 2D applications.

So that we could fit so many of these textures on the disk, they have been compressed with a greater ratio than that of the original images. So, if you decide to upgrade to the full package, you can expect to receive images of a higher quality than the ones supplied here.



Polish up your spheres with our collection of stunning 3D textures courtesy of The Soft Alternative

The image bank

This box demonstrates all the images supplied on our CoverDisk. If you cannot view the images on your Amiga, choose the ones you wish to use from here and then load them into HAMLabPlus to be converted. This will save you having to load each one in order to see what they look like.

Put across



Disks

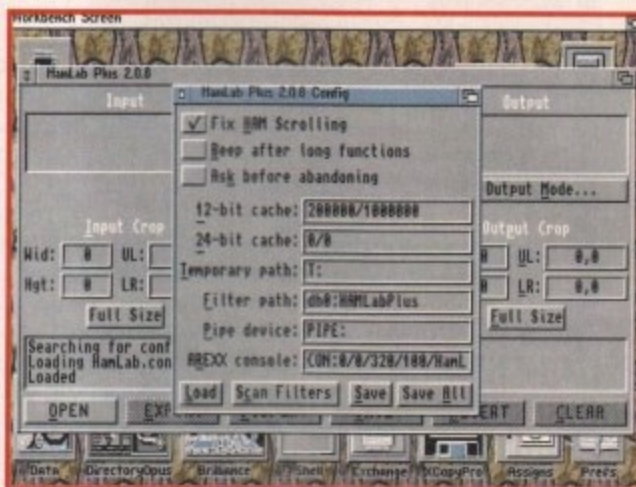
F1Ed upgrade

Steve Smith, the creator of F1Ed given away on the September issue, has informed us that the program will not function correctly on the A600 The Wild, Weird and Wicked pack version of Formula One Grand Prix. Therefore, he has kindly offered an upgraded F1Ed program for a nominal fee.

For just £5 you will receive a version of F1Ed that is totally compatible with the aforementioned A600 pack, and includes new features such as the ability to change the costume colours of your pit crew, use a database of real driver's lap times to calculate the team and driver performance figures and the ability to edit the zoom and angles used on the external views cameras.

This will also qualify you as a registered user, receiving new updates as and when Steve completes them.

Please make your cheques or postal orders payable to Stephen Smith and send them to 34, Wolsey Drive, Kingston Upon Thames, Surrey, KT2 5DN. Please do not phone or write to Steve regarding problems with F1Ed.



Before you do anything you should specify the pathname for the filters in the Configuration menu

HAmLabPlus

Author: J. E. Hanway

HAmLabPlus has been included so that you can load, view and change the file format of the stunning 3D textures from the Soft Alternative which are free on CoverDisk 1.

This means that you will be able to use them in your own programs such as Deluxe Paint, Imagine, ADPro and many other graphic applications.

The textures are supplied in Jpeg format as this format has extremely good compression ratios, while not sacrificing the original quality too much.

As graphic applications do not support Jpeg we will need to use HAmLabPlus to change the picture format to something that can be used.

When you first load HAmLabPlus you will be presented with the copyright information. Click on the close window gadget to load the program.

You may get a requester stating that

the right image



Installing HAMLabPlus

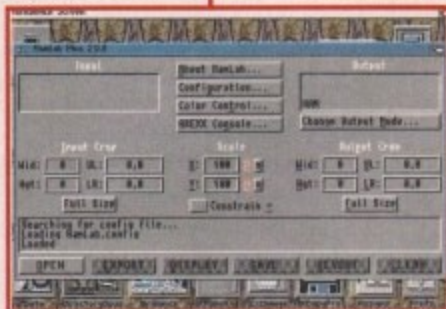
To install HAMLabPlus simply double-click on the InstallHAMLabPlus icon. When the installer has loaded, follow the instructions to install the program to either a floppy disk or hard drive. If you are a 1.3 user you will need to install the program to your ACUtilities disk.



In order to use the 3D textures you should change the output mode to a suitable screen mode



If you want good quality textures, export them in 24-bit IFF ILBM - but watch their size



HAMLabPlus uses a very user-friendly interface made up of buttons and gadgets

has been installed to:

HAMLabPlus

This is because when you install HAMLabPlus the filters are copied into the same directory as the main program.

Now click on the Scan Filters button, at which point the input and output filters will be loaded. Next select Save All and click on OK in the file requester. The next time you load HAMLabPlus the filters should load successfully.

Insert CoverDisk 1 - 3DTextures - and click on the Open button on the HAMLabPlus interface. This will allow you to load the Jpeg textures. Select a file to load and click on OK.

Once the picture has loaded it will be cropped to 512x512 as this is the demo version of HAMLabPlus - you will need to

register if you want the fully working version.

To actually view the file click on the Display button. You can change the screen-mode in which the file is displayed and saved by clicking on the Change Output Mode and selecting a suitable resolution.

The Bit Planes 1, 2, 3, 4 and 5 refer to 2 colours, 4 colours, 8 colours, 16 colours and 32 colours respectively. You can also change the type of dithering you require for colours that are not palette supported.

Once you are happy with the screen mode of your texture you can save it out as an IFF using the Save button. If you want the image saved in 24 bit IFF ILBM or other formats, click on the Export button. HAM mode pictures will be very large so watch your RAM. You can then select the directory where you would like to save your decompressed files so that you can use them in your favourite graphics application.

there are no input or output filters. OK this requester and the first thing we will do is to select our filters for future use.

From the main display click on the Configuration button. This will display a window showing certain attributes about the program. Where it reads Filters: type in the following;

If you are running from the CoverDisk:

AmigaComputing:Files/HAMLabPlus/Filters

If you are running from a disk, HAMLabPlus

Noisome

Author: David Larsson
Workbench 2 and above only

If you have ever wanted to attach sound effects to certain keyboard events you need Noisome.

Noisome effectively allows you to lock sound samples to certain actions performed on the input devices of your Amiga - the keyboard, mouse and disk drives.

As well as this it also allows you to decide exactly how your sound samples are played by using a totally intuition interface made up of clearly labelled buttons and gadgets.

When you first load Noisome a system requester will appear telling you that the file S:Noisome.prefs could not be read. This is because we haven't yet defined a preferences file for the program, so for now simply click on the OK gadget. When Noisome



All you need to do is select an event and then load an appropriate sound sample

eventually loads up you will be presented with the main interface, featuring a collection of buttons and switches. Much of the interface is taken up by the selection window to the left. In here you will find the functions that you can attach sound effects to.

Visible bell is the actual system alarm, key, Return (key), Space (bar), left mouse button, right mouse button, disk inserted and disk removed.

Probably the most effective option is the disk inserted and disk removed. When a disk is inserted or removed from the drive a sample of your choice will be played. So how do you attach a sample to an option?

Let's imagine that you wanted to attach a sample called Spring to the disk removed option. Firstly, select the disk removed option so that it is selected and then click on the Browse button to the right of the File gadget.

In the file requester select your Spring sample and then click on Play to the right of the Sound gadget. You should hear the sample play.

At this point you can effect how the sample plays by clicking the Filter on and off, changing the volume and clicking on the Channel button to specify the channel output.

Once you are happy with your setting you can then save them as the S:Noisome.prefs which failed to load earlier. From the Preferences menu select Save.

This will save your current setting to S:Noisome.prefs so that they can be loaded every time the program is run. If you now click on the Enable button at the bottom of the main interface your selections will be activated.

Click on Hide to remove the interface and now, whenever you eject a disk you should hear your sample playing.

If you want Noisome to run automatically when you boot your Amiga, you should drag the program via the icon into your WbStartup drawer.



Noisome will allow your Amiga to play selected sound samples when certain events occur

Installing Noisome

To install Noisome simply double-click on the InstallNoisome icon. When the installer has loaded follow the instructions to install the program to either a floppy disk or hard drive.

DiallingCodes

Author: Julian Wright
Workbench 2 and above only

DiallingCodes is a great little utility written in Blitz Basic 2 that will allow you to trace those elusive UK STD and BT 'special' codes.

DiallingCodes features an impressive array of features including knowledge of all 1, 2 & 3 figure International Dialling Codes (more than 170 countries); instantaneous display of information; type in code and get location; type in location and get code; displays time difference for International Codes; no need to type in full Town/Country name and it's fully multi-tasking

To run DiallingCodes simply double-click on the icon and you will be presented with a small window and a string gadget. You can type the following in the gadget:

- UK STD Dialling Code – Returns the location
- UK Town or City – Returns the STD Dialling Code
- International Dialling Code – Returns the country and time difference
- Country – Returns the International Dialling Code and time difference

You are not required to type in the full name of town, city or country names. If you type in just a few letters from the location the program will search its entire database for a match.

If you are looking for a country with a known



Use DiallingCodes to trace those elusive STD codes and International Dialling Codes

International Dialling Code, always type a plus sign (+) in front of the number so that the program knows it is an international code you're after.

For more information regarding DiallingCodes, please read the documentation provided by the author.

Installing DiallingCodes

To install DiallingCodes simply double-click on the InstallDiallingCodes icon. When the installer has loaded, follow the instructions to install the program to either a floppy disk or hard drive.



AticAtac

Author: Ultimate Play The Game

A snapshot file for use with the ZX Spectrum emulator given away on last month's CoverDisk, AticAtac is one of the all time greats written by the enviable Ultimate when the Spectrum was in its heyday.

By now you should know how to run your snapshot files on the emulator, so let's go straight into the plot.

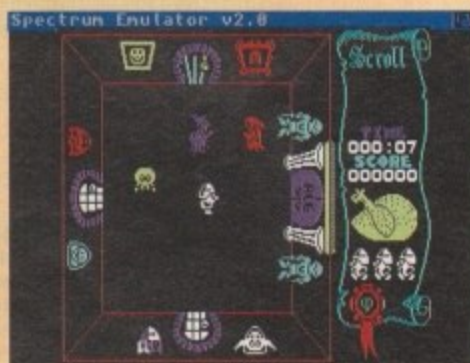
You have been trapped in an evil, haunted castle. Your task is to find the hidden Golden Key of A.C.G and escape via your only exit, the Main Doors.

The castle consists of five floors, including the

Atic and the caverns which contain countless rooms. Within the rooms you may find furniture, food, drink, objects, ghosts, ghouls and monsters. Eat and drink sparingly so that you do not deplete your food supply.

Collect and utilise objects you find to your best advantage; be wary of slamming doors and working trapdoors which will try to trap you, and avoid contact with all the ghosts and monsters.

Each of the characters – Knight, Surf and Wizard – are armed with their own specific weapons, individual movement type and use of one set of secret passages, unbeknown to the others.



Make sure you choose the right character for your type of game or you could end up dead rather quickly

Installing AticAtac

To install AticAtac simply double-click on the InstallAticAtac icon. When the installer has loaded, follow the instructions to install the program to either a floppy disk or hard drive. If you are a 1.3 user will need to install AticAtac to the AcUtilities disk.

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AticAtac controls

AticAtac can be controlled by Kempston or cursor joystick and keys. Remember that a joystick plugged into the Amiga's joystick port will act as a Kempston joystick.

QLeft
WRight
EDown
RUp
TFire
Z or Symbol ShiftPick up/drop
Space or Caps ShiftPause

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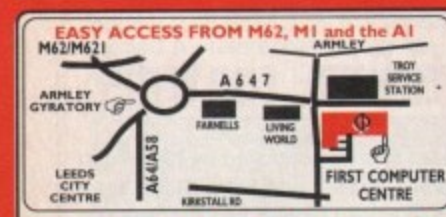
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 From the A1 take the turnoff for the A64. This merges with the A58 (by-passing Leeds town centre) which meets the Armley gyratory. After "Living World" at traffic lights take a right, left, left again, & 2nd left to get to FCC.

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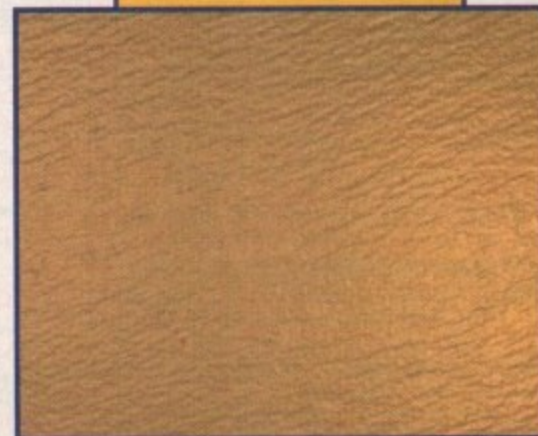
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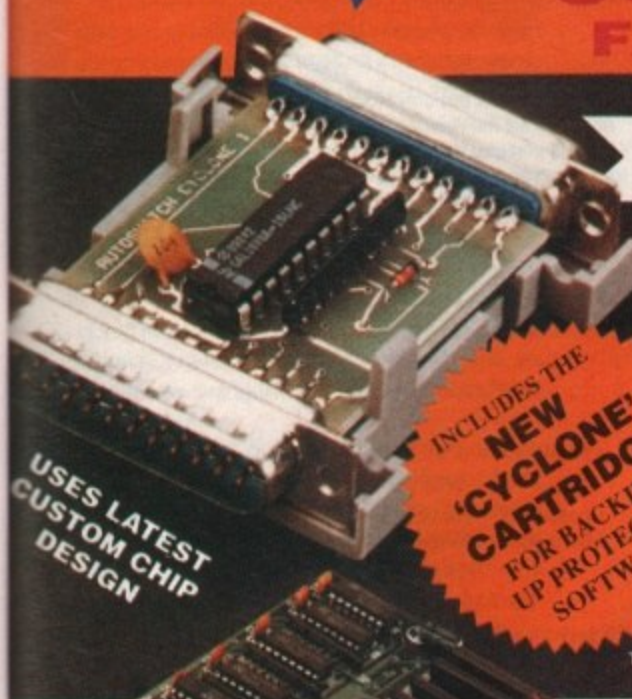
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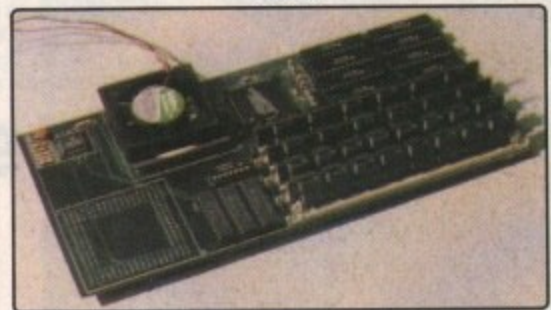
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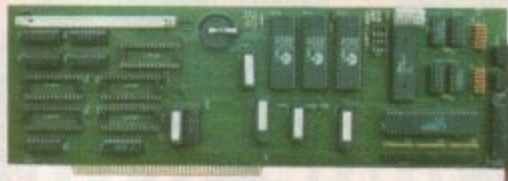
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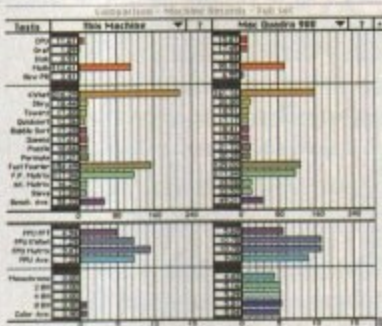
EMPLANT

Emplant is a very special product. It is the only hardware that offers multiple multi-tasking emulations from a single board. Here are some of the features of **Emplant**.

- Compatible with all Zorro II/III Amiga's.
- Utilises Amiga memory, AmigaDOS devices, parallel/serial ports and Stereo sound capabilities.
- Extensive Video Driver support (ECS/AGA, Picasso II, Piccolo, Retina/Z3, Merlin, EGS, Opa/Vision, Rainbow II/III, etc.) including 16, 256, 65K & 16.8 million colour displays.
- SCSI Support (Hard Disk, Scanners, SyQuest, CD-ROM etc.)

MACINTOSH EMULATION

The generic Mac emulation will perform as a Quadra 900 on a 68040 Amiga, and a IICI on a 68030 Amiga. All known software runs. The Mac emulation supports System 6.x/7.x, Hard drives, AmigaDOS partitions, Virtual screens, Stereo sound, File transfer, Printers, Modems, MIDI, SCSI peripherals, AppleTalk etc. Floppy support includes Emplant, Amax, IBM 720K/1.44Mb, Mac 800K (via AMIA) and 1.44Mb.



Here is a real performance comparison using the Mac program Speedometer. It shows an Amiga 4000 with Emplant matched with a Quadra 900, 68040 at 33MHz! The Amiga is, of course, still running cool!

EMPLANT ON AN A4000/040

IBM PC EMULATION

The new IBM module is a true 486DX compatible emulation, including CPU, MMU and FPU. It will support normal/protected modes and run Windows 3.x, DOS 6.x, OS/2, application and leisure software.

Speed is dependant upon your 68xxx processor and is gained from a combination of custom logic, software and the Amiga! The emulation will offer colour VGA on AGA machines, and colour SVGA with a supported graphics card such as Picasso II. SoundBlaster Pro support is built in too. Please call for availability.

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As you can see, the vast majority of my work is 3D with occasional adventures into two dimensions for the odd info screen or multimedia job.

Even during these brief excursions into 2D, I have always done my best to avoid freehand elements, due to what's best described as total ineptitude. In fact, even with my best efforts, stick men invariably end up unrecognisable.

I'm mentioning this to illustrate the fact that a lack of physical skills should by no means be seen as a stumbling block when it comes to computer art.

Obviously this won't inspire confidence for those not consumed with a passion for 3D. However, even in two dimensions there's still huge scope for what is known as derived art.

In other words importing, manipulating and compositing real-world imagery to form a sometimes surreal mixture of photography, freehand, ray traced and digitised art.

So, if you have the imagination and some existing skills in other areas – such as photography and videography – you could easily combine them with your on-screen talents to enhance an existing business or open up new opportunities.

OK, if it's so easy why isn't everybody doing it. After all, if you don't need any physical skill it must be a doddle right? Alas no, as with every swing there follows the ubiquitous roundabout.

Although the Amiga can rescue any would-be artist from the limitations of the flesh the mental demands remain the same, and in fact in many cases the creative pressure is even higher than those endured by a traditional artist.

The reason being that every computer artist the world over starts out with roughly the same basic skills – commonly referred to as the machine and its software.

And because computer graphics rely on such a similar array of tools – regardless of format – it's much easier to produce predictable results. Your job is to develop a style – something which to many freehand artists comes naturally.

As computer art

is primarily a mental discipline you can survive with the hand/eye co-ordination of a house brick, but if you don't have the eye and inspiration you're quite literally dead in the water.

Now before the mail bag explodes with the vented spleens of a thousand outraged art school graduates, it's worth stressing that I certainly don't consider myself an artist in the classical sense.

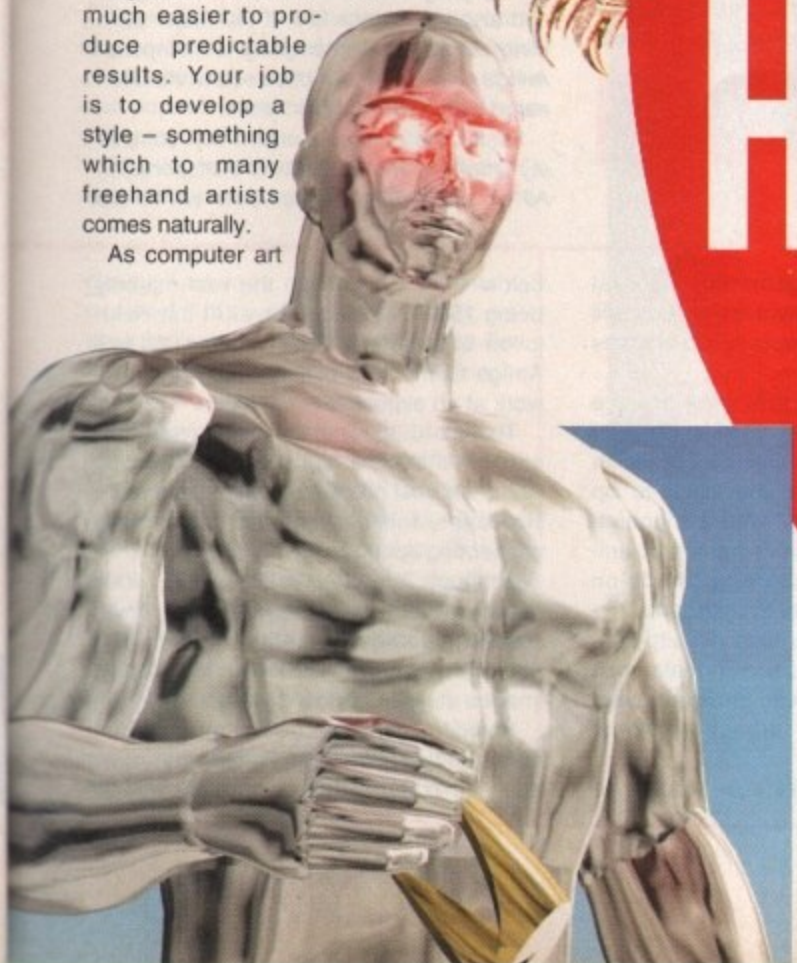
COMMISSIONS

What I, and many others do, is commercial art, there's a very big difference. I work on commissions and therefore don't have to wait for inspiration to strike. All that's required is to turn a concept into reality – a process which can still be pretty painful.

While we're on the lofty plain of art and inspiration, it's perhaps worth stressing that artistic pretensions rarely have a place in commercial art. If, while negotiating a job, you come across as the *I am an artist...* type there's a strong chance your career will

be short lived. However, that doesn't mean you should take what you're given and be glad of it. In many cases the people commissioning the work will be blissfully unaware of the potential and perhaps more importantly the limitations of your particular field.

For example, jaws often drop at the sight of relatively simple chrome



A wonga, wonga...

Paul Austin guides you through the freelancing jungle



Looks great on its own but add some text and it's just too cluttered

objects resplendent in a sea of reflection. However, when you point to the Christmas tree in the corner – complete with a million individually modelled pine needles – the response will almost always be; "oh that, yes it's OK I suppose..."

The bottom line is to get involved in the design stage as soon as possible. As a result you can guide the client in the best direction for both parties.

Another point worth mentioning is not to let the software take over the show. All too often you see beautiful images ruined by the latest addition to the software.

No matter whether it's lens flare, motion blur, depth of field or any one of the hundreds of image processing options available via programs such as ADPro or ImageFX, always keep your goal clearly defined.

A classic example of overkill at its best is the Christmas card image in this very article. Although this doesn't suffer from new-feature-itis it does illustrate a very easy mistake to make.

A slightly more spatial version was commissioned for use on the front cover of an ST magazine. When the final image appeared in all its texture-mapped glory I must admit I was fairly pleased – I'd even remembered to leave space for the CoverDisks – great.

However, when the cover words, flashes and masthead were added the vast majority of its appeal was lost. Once all the other

The big pitch

OK, it's time to bite the bullet and have a bash, but how do you get your first job. Well first you need a portfolio and a place to send it. Perhaps the best way to achieve this is to do a couple of free/low cost jobs in exchange for a reference.

Assuming you're now armed with the necessary, you can start sending expensive video tapes or prints through the post to likely employers. However, beforehand it's worth doing a fax/mail out with a brief list of what you offer plus your references and perhaps an example or two.

Another excellent way of drumming up business is to blag your way into shows – preferably trade. That way you've got your target audience all in one place and better still they're all vying for a lead on the opposition.

When approaching business types it's useless to walk up brandishing an Amiga floppy. You'll need either a PC or Mac disk with the images or animation in a form that they can slap in their machine and look at immediately.

In most cases Jpeg will be acceptable, although it might be worth carrying a few Pcx, Pict or GIF examples just in case. When it comes to animation, obviously a video tape is the ideal medium.

However, in some cases animation on disk may be required. As a result it's worth learning something about both PC and Mac animation formats such as Flic and Quicktime.

elements arrived it was simply too cluttered – and the impact I was being paid for went out the window...

This is a key point of almost all commercial art work – you're being paid to make an impact, not to impress your peers. Invariably you're selling something in one way or another and it's your job to make the client's product leap out from the rest. As a result,

Stills

As you've probably gathered, the vast majority of my work revolves around still images, usually for covers or illustrations within articles.

The reason being that they are the most cost-effective method of freelancing on a part-time basis. Obviously, with a full time job it's usually impossible to zip off across the country with a machine packed with thousands of frames of animation – all of which need hands-on attention during transfer to the client.

Thanks to modems, high density floppies and high compression formats such as Jpeg, it's usually quite straightforward to transfer even the largest individual files.

When it comes to file size, I rarely go



Illustration for articles can also be a nice little earner

adding intricate detail and clever technicalities that only a tiny handful of enthusiasts will appreciate isn't always good business. At worst they'll confuse the image, and at best waste your valuable time.

Obviously with the huge diversity of Amiga hardware and software, listing the lot is out of the question. As a result we'll concentrate on the elements which you'll need to do business, rather than those which will actually generate the end results.

Perhaps the most important of all has to be a fax modem. Thanks to the fax element you're provided with the essential ability to both send and receive ideas and proofs of work in progress.

It also overcomes two of the major stumbling blocks when attempting to incorporate Amiga graphics into a business world dominated by the PC and Macintosh.

Firstly, the modem element can completely side-step the problem of transportation. All too often your latest creation will be just

below 1024 x 1024 with the vast majority being 1500 x 1500 or above. At this resolution even American A4 magazines like Amiga Computing can still reproduce my work at an expectable resolution.

Thanks to Jpeg, even your largest creations will fit on a high density PC floppy using the best possible compression ratio. However, there is a word of warning concerning Jpeg.

Although it is often a life-saver it does have potential dangers. With the pressures on storage inherent with 24-bit art, it's often tempting to work with Jpeg images as your standard format.

However, even when using minimum compression the Jpeg format will introduce unwanted artefacts into the image

Pre-production

Before starting or even agreeing to a job, give yourself some time to think things through. It's all too easy to agree straight off and then dive straight in, only to discover half-way through you've gone about it completely the wrong way.

Once you have a good idea of how to progress, sketch it out in rough and fax it through to the client for confirmation. If everyone's happy – and only then – it's time to proceed.

If the job revolves around some specific object, make sure you get hold of some photography of the exact item in question. Better still try to get hold of the item itself! Unbelievable as it may seem, I'll guarantee you'll get even simple objects horribly wrong if you rely on memory alone. And if someone is paying hard cash they'll quite rightly expect perfection.

In fact, this raises a key point for any freelancer. If you're not a perfectionist by nature you won't last very long. "That will do" simply doesn't come in to it. As they say, you're only as good as your last job – and if your livelihood depends on it, it better be good.

50k too big to fit on a PC floppy. But thanks to the infinite transfer potential of a modem it wouldn't matter if the file was 5Mb to big.

The only limitation is of course the impact on your phone bill – assuming you can't convince the client to dial into your system that is.

Secondly, thanks to the format conversion options offered by the Amiga's huge arsenal of image processing packages, quite literally any file type can be delivered direct – again regardless of file size.

Obviously when it comes to mass file transfer a modem becomes less attractive, however there are alternatives – see animation box out for more info.

ON-LINE

As for getting on-line you can do as much or as little as you like. Accounts on CompuServe, CIX plus a Internet address are all very nice, however it's unlikely they'll be an essential.

As long as your client has a modem – and the vast majority of companies do – you can go direct.

Another must is a good printer. In an ideal world you'd have two. One laser for letters, flyers, invoices and other administration plus a dedicated graphics printer with which to display your wares at their colourful best.

Obviously this isn't an ideal or likely situation, so I'm afraid it's a question of priorities combined with cash-flow. If you want the best possible colour output the Primira is the only serious choice.

Thanks to a photo realistic add-on it's almost like producing chromalins via a repro-

data. You may well have already noticed this, often appearing as smudged area or what appear to be hairline cracks running through vignettes within the image.

Initially these are indistinguishable even under microscopic magnification. However, if you continue to edit the image, repeated saving out using the Jpeg the situation can get dramatically worse.

Soon more and more errors will appear and worst still, those which already exist can be enhanced. As a result, whenever possible always work in none compressed 24-bit format during editing and then swap to Jpeg for the final output.

house. But unfortunately the running cost of a Primira is high, and although excellent for full colour images it isn't as impressive when it comes to black and white output.

If you're after a compromise of acceptable running costs, good colour proofing and quality black and white output, it might be worth looking at the Hewlett Packard HP 550C.

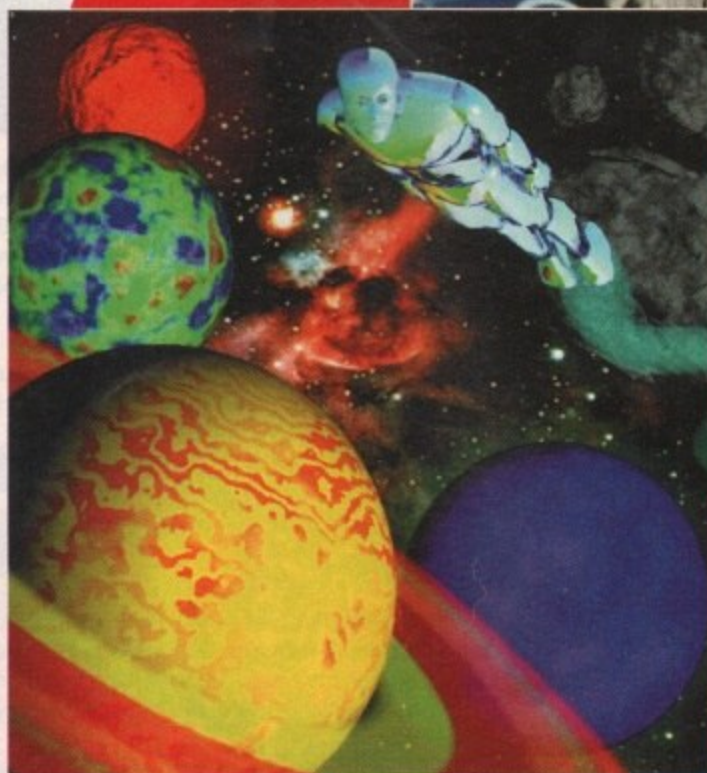
Although not laser quality it is an excellent com-

The wealth of packages available for the Amiga make it an ideal freelancers machine



Sketch out your ideas before starting and set yourself a firm goal

Getting on board the CD-Rom explosion via Amiga animation



touching up finished material. A classic example of this is the Redzone motorcycle image which is comprised solely of scanned images and screen shots all composited together to form the finished graphic. Without alpha channel it would be literally impossible to produce.

As for virtual memory, this becomes invaluable on larger images. If you're only ever likely to work in video resolutions or smaller it isn't a problem. However, if you land a commission to produce a cover image for a magazine, or in fact anything that demands very high resolution, it's a must.

As you're probably aware, most 24-bit boards have a range of pre-set resolutions. If you can't scroll or select an area larger than the maximum touching-up, a final can be a nightmare and sometimes impossible.

When it comes to animation, you'll find yourself faced with a whole new collection of problems and pitfalls, not least of which is the ability to transfer the end results.

Obviously, if your finances allow, some-

What you'll need, what they'll want

Above all else make sure you get a very clear brief of what is required. In addition, ensure you're sent a copy of the agreement on paper beforehand.

Perhaps equally important is to get a rough idea of how they want the end result to look, and make sure all the elements they're likely to add later are included.

In addition, keep in close contact with the client with regular updates on your progress and their requirements. No matter what, do not stray from the brief.

It's all too easy to get carried away and do what you think is best – remember the customer is always right, even when they're horribly wrong!

Once the ball is rolling the most important commercial element is time, they'll be working on a deadline and you'll be expected to deliver as and when promised.

It's no use griping about hard drive failures or whatever else, if you miss deadlines you're a liability and nothing more – no matter how impressive the end results.

The client will also expect the job to be complete and ready to run as soon as it arrives. As a consequence it's well worth finding out what aspect ratio and resolution would be the ideal.

If the art guy or gal at the sharp end can simply flow your creation directly into a waiting template you'll score brownie points by the bucket load. If you keep the workers happy more jobs will follow and the management will keep paying.

Cash flow

Actually getting paid is perhaps one of the trickiest elements of freelancing. It's not that most companies won't pay, it's simply that the money is better accruing interest in their account than yours. As a result they'll try to delay payment until the last possible moment.

However, when dealing with a new client it's essential that you demand at least partial payment before starting the job. Usually it's wise to ask for between one third and half the total cost.

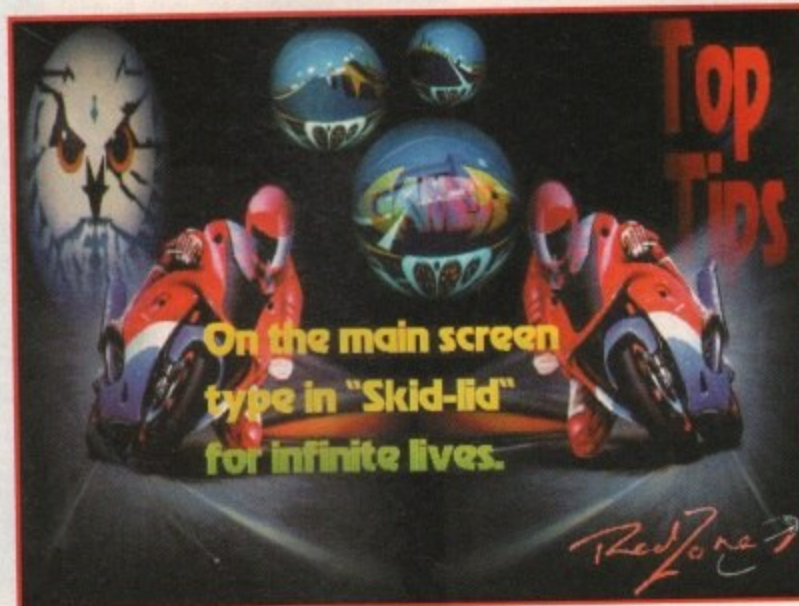
In certain cases they'll refuse using the "it's not company policy line." Depending

on your desperation, either walk away or demand a contract beforehand and a guaranteed date for payment in full.

If you are forced in to a contractual agreement, make sure it's clear that you're to be paid on completion – and not on publication. If you don't they may simply trash your hard work at the last minute and refuse to cough up.

Once you're familiar with a company it's sometimes good PR to drop the partial payment policy and join the unwashed masses in the 30-days-to-pay department. However if you do, keep a close eye on the wall planner – not to mention the bank manager.

OK, we discussed how to get paid, but what still remains is how much. When negotiating a price it's always a good idea to



Sometimes alpha channel support is simply essential

thing like the PAR – or personal animation recorder – is the ideal solution, allowing you to transfer near D1 digital video direct to the recording system of the clients choice either via composite, S-VHS or component output.

ACCESS

However, if you don't have direct access to single-frame recording equipment its worth enquiring if the client has access to such facilities. If so, you could take your

machine to them and download your files via a direct serial connection – using comms software. A slow but often cheaper alternative.

If neither you nor they have a still frame facility it might be worth contacting a bureau facility such as Alternative Image – 0533 440041.

They can put your animation to tape for you and also produce 35ml transparencies and prints at reasonable cost. If the PAR

Hard times

Part and parcel of being a freelancer is finding yourself twiddling your thumbs on occasions. As a result it's essential you try and add as many strings to your bow as possible.

If times are hard take anything that's going, it's much better to be humble than bankrupt – packing shelves, occasional bar work, anything just to tide you over until the next job comes along.

Another good idea is to get yourself a wall planner and attempt to get the work in early and spread the load a little. When one job is in progress it's downtime for all the others, and if you don't plan properly you'll at best end up with nothing to do, or at worst miss a deadline.

Once you're au fait with the finer points of a particular subject or software package, why not attempt a little freelance journalism. After all, you're selling your skills on screen, why not do the same in print and how two do's are always nice little earners.

If you have incorporated photography, videography and perhaps even music into your work you could sell your memoirs to a whole host of magazines – even this one.

Although much of the above has revolved around corporate work, it's also worth approaching local user groups, whether they be computer, video or photographic. At worst you'll pick up a few nickel and dime jobs to tide you over while also making a lot of what could become lucrative contacts.

open with the classic "well what's your budget."

That way the ball's firmly in their court, and better still you could be amazed how much some people are willing to pay. If the offer is laughable come back with an inflated counter offer around the figure you were originally after and see how it goes.

Basically common sense is the order of the day, but don't make the mistake of undervaluing yourself. If possible work out a standard hourly rate - plus expenses - and stay with it.

Remember, not many people can do this sort of work, so stick to your guns. If you're up to the mark you'll get what you deserve, either from them or someone else. Good luck...

system is something you plan to aspire too rather than invest in immediately there is an alternative. Although not broadcast quality, a combination of DCTV and Clarissa offers an excellent and affordable alternative.

Better still, it also works very well as a method of proofing your animations, either for your own benefit or as a demo of work in progress for your client.

Thanks to the composite output of the DCTV, all you need is to plug the output directly into any home VCR and you have an instant demo to pop in the post. And better still, because Clarissa produces such smooth playback you're unlikely to undermine client confidence.

EXPLOSION

However, having mentioned the video-graphic uses of animation it's worth stressing there's another market that could prove profitable to the animator. Thanks to the explosion of CD-Rom there's also a huge market for intros and other graphic interludes.

In addition, there's a growing market for on-line education. Due to the expense and effort involved in producing and updating manuals and other traditional learning

Due to the expense and effort involved in producing and updating manuals and other traditional learning material, many companies are turning to graphics.

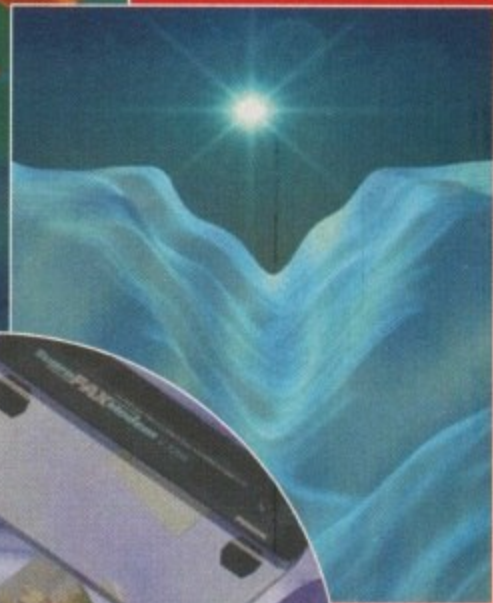
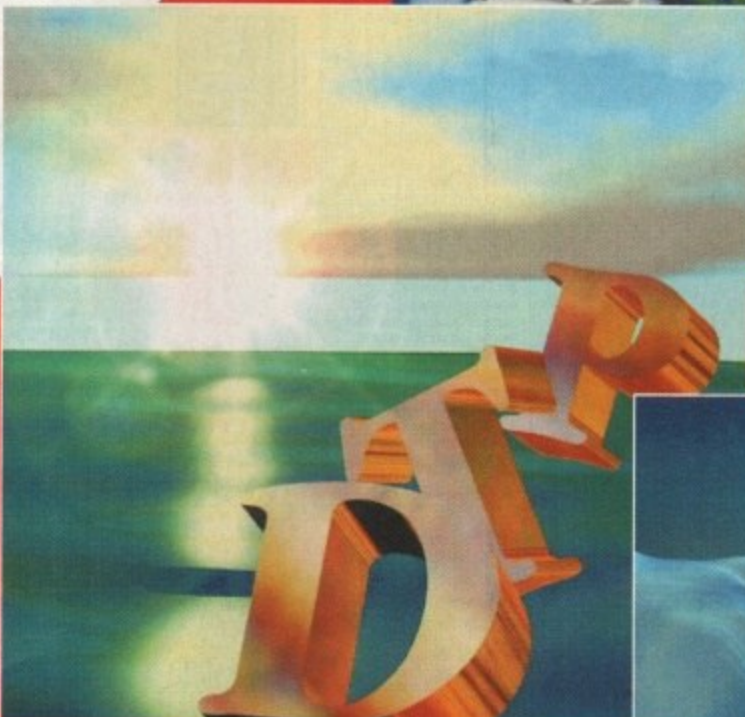
material, many companies are turning to graphics. For example, many engineering companies are now using computer animation to illustrate how to install hardware - whether it be for the benefit of their engineers or the end user.

Thanks to five seconds animation, the need for a whole chapter of expensive text is removed. All the user has to do is watch the anim spool from a hard disk or floppy and the mystery is removed.

Chips always go in the right way, nuts and bolts slide into the appropriate place and expensive tech support is slashed in a matter of seconds. This type of work may not be glamorous but it pays well and usually leads to regular work.



Look for freelance opportunities in every area - from magazines and local companies to intro animation and packaging



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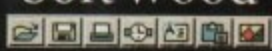
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Pablo is designed to unite the two ends of the spectrum by bringing video capabilities to the Picasso II RTG graphics card. The Picasso II has a 16 pin expansion plug near the back plate of the board and it is to here that Pablo connects.

Once you have removed the standard back plate from the Picasso and replaced it with the one in the Pablo box that has two extra holes for the Composite and Y/C outputs, it is a simple matter to screw Pablo to the Picasso board using the supplied mounts and screws.

Pablo certainly comes well-equipped with connections to the outside world. In addition to the standard RCA jack cable for composite signals and Y/C cable, there are adaptors for BNC and SCART connections.

There are also five disks containing updated system software for Picasso allowing for the new video connection, and a copy of the excellent MainActor animation software along with some example animations.

The software installation uses Commodore's Installer and is painless, but there are two problems with it.

Firstly, it doesn't check what revision of the system software you are currently using, overwriting the newer versions I had downloaded the previous evening.

Also, while installing MainActor there are points when it wants the next disk but it doesn't tell you what it wants, merely puts up a "Proceed/Abort Install" message leaving you guessing what it is waiting for.

Informed Picasso users will no doubt be aware of the PicassoMode software available for Picasso. It allows the customisation of screenmodes to the user's desires.

To use it, rather than having the standard 38kHz or 57kHz tooltype, you put CUSTOM in the village.library icon. This then makes Picasso look for a file in the directory DEVS:Village corresponding to settings you have made in PicassoMode. Pablo comes

A work of

with various monitor modes for PicassoMode that allow you to use a combination of video resolutions with monitor resolutions, for instance, 15&38kHz.

Then all non-Amiga resolutions, like 1024 x 768, are routed to your monitor, but ones like 640 x 512 are sent out of Pablo's video outputs. This brings up a serious failing in Pablo.

It doesn't come with any overscan settings. In fact the highest resolution it goes up to for video is actually 640 x 512 and it is not possible to create a 768 x 576 screenmode with PicassoMode.

OVERSCAN

I have spoken to Blittersoft, the UK distributor for Picasso, about this and they say that Village Tronic are rewriting the screen drivers to deal with overscan.

This strikes me as a product that has been

rushed out, especially as the blurb on Pablo's box distinctly states that Pablo can be used in resolutions up to 768 x 576.

And as this is the case, I can't recommend Pablo for video professionals at the moment. In fact, unless this essential problem is immediately corrected, I don't see Village Tronic selling very many Pablo boards.

The bright spark on the horizon is MainActor, which comes free with Pablo. It was fully reviewed in last month's issue of *Amiga Computing*, but if you missed that issue (where were you?) stand by for the low down.

MainActor is a piece of software for the creation of animations. Its use isn't solely restricted to Picasso as it can be used to make normal ANIM-type animations, along with foreign formats like FLCs and FLIs.

It can also be used as a conversion tool to allow you to take animations created on a PC and transfer them to a native Amiga format or vice versa.

MainActor does have a special format

Centre of attention

In order for Pablo to create a signal that can be viewed on a television screen or recorded to videotape, it has to be at the correct horizontal scan rate and vertical refresh rate.

For a PAL signal, these settings have to be around 15kHz and 50Hz respectively. Unlike Opalvision, however, Pablo's output cannot be genlocked unless you have a TBC or Time-Base Corrector.

This is because Pablo's output doesn't really count as "computer video out" but as a separate video signal, just like that from a video camera or recorder, and it thus needs to have the stabilising influence of a TBC to make sure it syncs with other video equipment.

In the past there has always been a gap between graphics cards intended for video work and ones to aid productivity. Video cards worked only with graphics programs written especially to take advantage of their 24-bit abilities, but they were about as much use to Workbench-based programs as a bicycle is to a fish.

On the other hand, the productivity cards, or RTG cards as people like to call them, only worked at high scan rates unsuitable for video work.

Pablo, Picasso and their ally, Main Actor produce some effective results



art

*As Pablo meets Picasso,
a new face in video
graphics will evolve.
Frank Nord explains all*

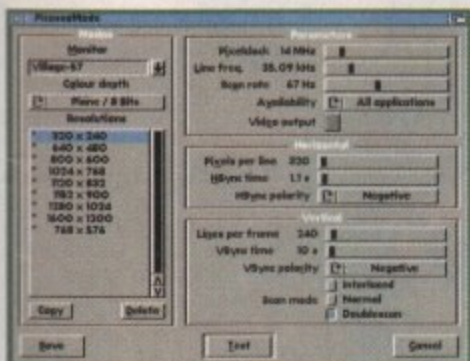
Bright lights

One more thing. Once I had connected up my Pablo and gone back to using my monitor, with Pablo's output hooked up to my S-VHS video deck, I noticed that normal Amiga screens were of the usual brightness on my NEC 4FG.

However, before I had connected Pablo my Picasso screens were of the same brightness. Now they were a lot darker and I spent a while fiddling with my brightness control, wondering if Pablo was worth all this hassle considering it didn't even output to the resolutions I desired.

Then, turning in desperation to the manual, I discovered that there were three jumpers on the Pablo. I had noticed them when I was installing my board, but as the manual's description of the installation process made no mention of them, I had paid them no further attention. Well, referring to the last-but-one page in the manual I ascertained that removing these three jumpers would result in a much brighter image through Picasso, but it warned me to have both the Pablo and Picasso outputs active to prevent overloading.

Since I always intended to have both Y/C and monitor output, I would have set these jumpers accordingly at the time of installation had I but known.



Hitting the Test buttons takes you to an interactive test card screen where settings can be adjusted using the keyboard

specifically for Picasso owners in the shape of the mundanely-named "Picasso" format. Animations in this format can be 24-bit, 16-bit or 8-bit, with MainActor automatically dithering 24-bit frames to 16-bit if desired.

File sizes aren't overlarge considering the amount of data that must be contained in each frame for full 24-bit animation, and each frame can have a different timecode, letting you set pauses within an animation without having to increase the framecount.

MainActor also has the ability to add sound to any animation in the form of IFF samples and can display animations in a window

on the MainActor screen or on their own screen.

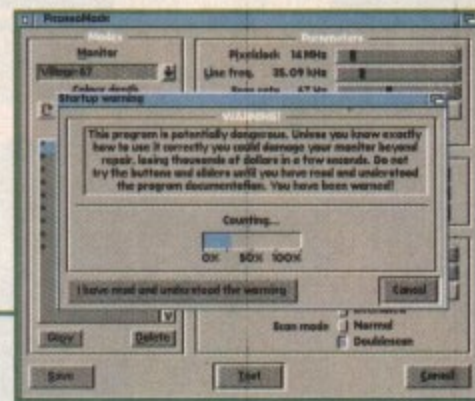
Up to five animations can be loaded at any time, and if you don't have enough ram to hold an animation in memory, MainActor does a very respectable job of playing it back directly from your hard disk.

The manual states that the version of MainActor that comes with Pablo is the full version, but you still get the annoying requesters saying "Pay the fee!" until you return your registration card, and Village Tronic then send you back your keyfile to personalise your copy.

This is a good idea in principle but I recommend that animators get their Pablos long before they need to do any work, as it seems to take Village Tronic an absolute age to send out the keyfile in question (well in excess of the normal 28 days for delivery in at least one circumstance I am aware of).

If you really can't wait or you want a full copy of MainActor right now and will settle for a black border around your animations, then go right ahead and buy one, you won't be disappointed in the quality of the video output.

A last, and somewhat disquieting observation, however; the warranty for Pablo is



See what happens if you don't pay attention

only six months. If it takes Village Tronic six months to come up with drivers that work in overscan and then you discover a problem with your Pablo that wasn't apparent using the old drivers, will Village Tronic replace your board?

SYSTEM ESSENTIALS
 RED = Essential BLACK = Recommended

Zorro required Video gear required Hard drive required

The bottom line

Product: Pablo
 Supplier: Blittersoft
 Tel: 0908 220196
 Price: £150

Ease of use _____ 9
 Implementation _____ 2
 Value for money _____ 9
 Overall _____ 8



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The army of Amiga users who dabble in 3D, be it as a hobby or a way to pay the bills, have always known that getting just the right texture can be the difference between a decent image and a good one.

They've also known the frustration of rendering for hours just to try out a small change, a process which can test any user's sanity.

With Apex Software's Forge, a dedicated texture previewer and visualiser, all that is set to change. Forge is bundled with the Essence II procedural textures for Imagine 3D, and the image maps it produces can be used with any package.

At heart it is a simple program with a down-to-earth workaday job, but in productivity terms Forge is about the best thing since the maths co-processor.

Opening on a clean, no nonsense interface, Forge offers a quarter screen preview window of the textures being worked on, a variety of controls for lighting and shading preferences, and a full set of sliders to control texture attributes.

The preview window can be set to display one side of a cube (front, side, or top), or one of three views of a sphere so that the user can form a better idea of how the finished item will appear.

In addition, one can also tell Forge to display and render a spherical map, cylindrical map, or a planar repeating map. In other words, the program can automatically calculate the way an image is stretched when wrapped around a sphere or cylinder, and will compensate so that when the map is rendered it fits snugly around its parent object.

The repeating maps, designed to tile without the seams showing, are less useful, and the program sometimes produces results which don't tile well at all.

As Essence textures are what is known as "procedural" (they use complex maths rather than bitmaps to create images), Forge has to use an aspect ratio of at least 2:1, sometimes more, to create a map that will tile properly, and at these ratios some of the textures begin to look a bit stretched.

It is also easy to produce an image which tiles seamlessly in one direction but not another – something I found with the default flagstones texture.

A few minutes of fiddling can usually sort the tiling problem out though, and because using an image map rather than a procedural texture saves a lot of rendering time, perseverance is well rewarded.

Imagine's textures, augmented by Essence II, result in superb quality images,

*3D textures
can be slower than
a snail on a hot day.
Stevie Kennedy tests Forge
and discovers a salt-free way
to speed them up*

Digital

blacksmith

The essence of Forge

Essence II isn't new, but it is still the best collection of procedural textures you're likely to find outside a Silicon Graphics workstation.

Essence II version 3.0, the version supplied with Forge, has been improved slightly in terms of rendering speed (the authors claim ten per cent), and there are now a set of 68040 optimised textures for users of the faster processor.

In total, Essence comprises of dozens of textures and literally hundreds of attribute files (surfaces to you Lightwave users) which use one or more textures to

produce everything from rain to spaceship hulls and gas planets. In use they can be very slow at times, particularly those which make heavy use of bump mapping, but the results can be stunning, and no Imagine image need ever look the same again once you have a copy of Essence.

Forge makes the perfect partner to Essence in that users now have the opportunity to use textures within Imagine or to quickly render a bitmap and use that instead. This results in a superb coupling of speed and flexibility.

but the program can be slowed almost to a halt by the maths involved in the textures, let alone any complicated objects in the scene.

If you have enough memory (4Mb RAM should be considered a minimum), it is possible to use Forge to create 24-bit image maps and use them rather than the original texture. In this way, the Essence textures can be used, in bitmap form at least, with any package and at a much improved speed.

Unfortunately, Forge really only works with

the two volumes of Essence II textures supplied with the package. It will recognise Imagine 3.0 textures and attempt to load them, but the rendered results are rather grotty to say the least.

Essence II contains enough textures that this isn't a big blow, but had the program the ability to load all Imagine textures it would have been more useful.

All this talk of rendering and creating image maps is great if you own a package other than Imagine and you're dying to get your hands on those Essence textures, but Imagine users themselves will probably be as interested in Forge's preview facility.

The quarter screen preview window displays a dithered 16 colour hi-res interlace image (256 colors are supported for users of AGA, Picasso, OpalVision, or EGS displays) which is updated in real time as the user messes around with texture settings, and this is invaluable.

Half a dozen passes are made before the window completely updates, with more detail

Jargon buster

texture – a generic term for any process or image applied to a surface with the intention of altering its appearance.

procedural texture – a texture (in fact a small program) which has a number of built in variables the user can set to achieve limitless variety in the finished appearance.

Procedural textures produce very clean 3D effects, but because of the maths involved they can be very slow to render. Their prime advantages are memory efficiency and flexibility.

image map – a texture formed by taking an existing image and "mapping" it onto the target object. Image maps render very quickly, but are fairly inflexible and use precious memory.

Forge can be used to create image maps from any Essence II procedural texture, thus speeding up rendering while retaining a degree of flexibility.

tiling – the practice of taking a small image map and tiling or repeating it across a large surface. This process saves memory because the image map is kept as small as possible, but is only suitable for images which follow a pattern of sorts.

spherical map – a map designed specifically to wrap around a sphere, thus avoiding the usual squashing effect around the poles. A good example of this would be the strangely shaped planet Earth maps often found in atlases. Forge can automatically take care of pole squashing when creating spherical maps.



Hullplate and pitted textures courtesy of Essence, spherical map rendered by Forge, final image by Lightwave. Phew!

Rendering options include number of frames, six levels of anti-aliasing, four output formats, and an estimate of time required

aspect ratio), and MaxSize to boost the window to its biggest possible size.

Below these buttons, a box shows the size of the current preview window compared to the whole image, and users can drag this box to any part of the image.

In addition, there are slider controls for zooming in and altering light intensities, and as light direction can be set from the drop-down menus it should be possible to accurately preview a texture in almost any conditions.

Animation previews can also be created and the final animation rendered from within Forge, thanks to a couple of clever features. Setting start and end frames is as easy as clicking on the buttons in the middle of the Forge screen, and changes can be made either to both at once or just one of them.

Creating a raindrops animation using the Essence II raindrops texture is then a simple matter of loading the texture, setting its built-in-time variable to one second on the last frame, then rendering 25 frames in sequence.

The preview itself comes in the form of a storyboard view, which can force the normal window to show up to 25 shrunken images at once. When this view is selected, a small preview box appears below the window, and clicking in it starts the animation.

Nothing could be simpler, and though it can be tricky to see any changes in the tiny anim box, this is still many times better than

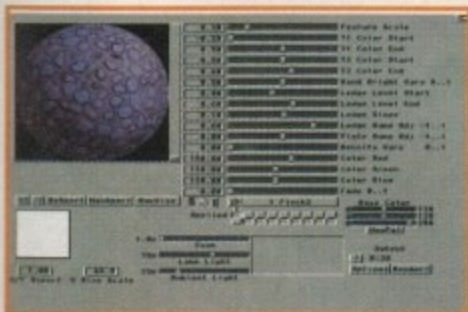
added every time. However, for large global changes, such as changing the size of the flagstones in our earlier example, the first couple of passes will show enough detail that the user can more or less choose the correct setting in real time.

As this method replaces the traditional change one tiny value then wait three minutes for a quick render, Forge could justify its asking price (to Imagine users) on this score alone.

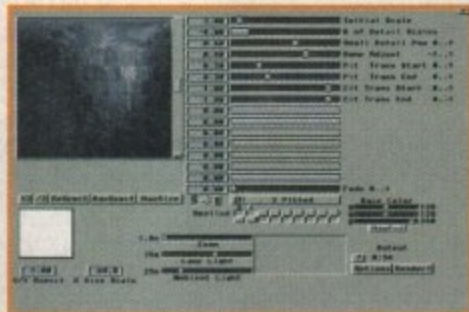
FEATURES

Previews are aided by a number of features which, though unglamorous, are very useful. The preview window itself is controlled either by its re-sizing gadget or by the tow of buttons found below it.

Of these, there are two to double or halve the size of the window, ReSpect to force the window to adopt the same aspect ratio as the finished image, MaxSpect to show the whole image in its largest size (dependant on



This sort of texture would take an age to render in Imagine, but Forge will preview changes to it in seconds



The preview here shows a spherical map in the process of being completed for use in another package

attempting the same job in Imagine.

Forge will make a good guess at the time each frame is going to take to render, so if you are generating a series of large images for use as a sequential image map, the program will even tell you when it would be a good idea to nip off for a cuppa. Isn't that nice?

Without a doubt, Forge is well worth buying and virtually unmissable for Imagine owners. The speed and ease with which one can experiment not only boosts productivity but encourages whacky combinations of textures (up to nine can be used at once) and prods the user on towards creating new looks.

Lightwave and Real 3D owners won't have quite as much use for Forge, but even these users would be crazy not to give it a quick test run.



SYSTEM ESSENTIALS

RED = Essential BLACK = Recommended

1 Mb RAM	Hard drive	4 Mb RAM or above
Maths co-processor		Kickstart 2.04

The bottom line

Product: Forge/Essence II v3.0
Supplier: Meridian Distribution
Price: £79
Phone: 081-543 3500

Ease of use	9
Implementation	8
Value for money	8
Overall	9

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Commodore seemed to have got it right for once. A CD-ROM drive that 1200 owners could slip in to their Amigas and run CD32 software and applications. Then, the immediate outburst of enthusiasm began to give way to nagging doubts and, worse still, negative comments from the head of Commodore UK, David Pleasance.

While the CD1200 drive boasts the same planar chip that can be found inside the CD32, there was no option to install Mpeg.

Secondly, the trapdoor connector on the 1200 is used to house Commodore's CD-ROM instead of the PCMCIA port, which means that no matter how hard you try, there's no room in the future for upgrades via the use of memory expansions and accelerator cards.

The eagerness for the golden child of peripherals has subdued somewhat with the list of cons. Enter the independent developers – this month sees the release of the Zappo CD-ROM drive.

Available well before the official Commodore version, the machine stands an extremely attractive chance of hammering the official version into the ground. Is the Akiko chip important enough to make 1200 owner's itchy fingers wait any longer?

The Zappo CD-ROM drive seems to have everything going for it. Once brought out of its box displaying a relatively eye-pleasing design, making you feel like your money has been well spent, it's immediately noticeable, scanning the albeit brief instructions, that the drive plugs straight into the PCMCIA port. This means that the trapdoor connector is free to do with what you will.

The drive itself is a double-speed Mitsumi FX001D that offers a transfer rate of nearly 300K, making it an equal match to the Sony drives found inside the CD32 and CD1200. Instead of the toilet seat pull-up lids of the latter, the Zappo has a front loading, retractable tray.

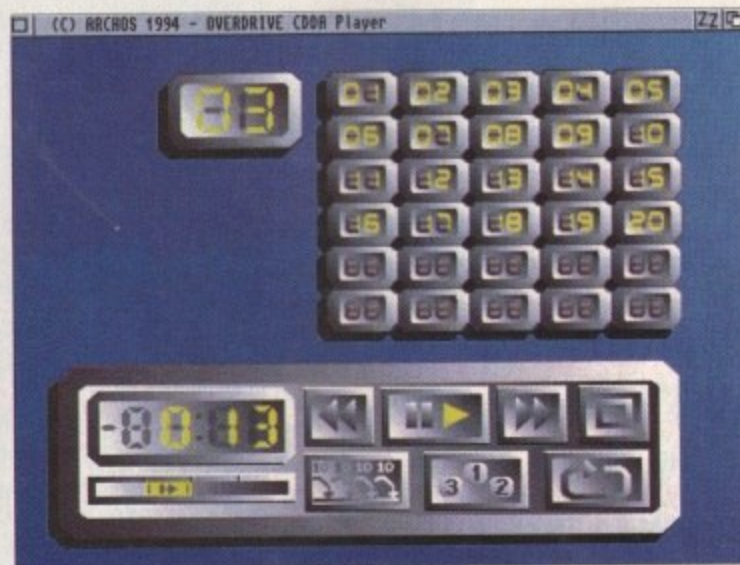
The hardware recognises the ISO9660 and was able to read a Mac CD, where as a standard PC drive couldn't. Impressive indeed.

Provided in the packaging is the connector cable, external power pack for the CD

The Zappo CD-ROM drive looks set to steal the CD1200's thunder. Can it succeed without the Akiko chip? Adam Phillips reviews



Jumping the



Whistle while you work – Ice-T for word processing, Belinda Carlisle for graphics, Prodigy for desk top publishing. Whatever your musical tastes, the CD player offers comprehensive features and a user friendly interface

Music to your ears... and eyes

Also provided as part of the software are two handy utilities to add extra value for money to the package. The Photo CD displayer allows the use of Kodak pictures that can be downloaded into the Amiga and then saved out in to the hard drive or on to floppy.

The audio player is very similar to the CD32's. Slap in a disk and then select which track you want to play. The usual array of shuffle, pre-program and other features are present to provide an all-round and highly useful piece of software. The only real downside is that the player can be a little unresponsive at times, but it's nothing to hinder a potential purchase decision.

Another handy option, due to the way in which the sound leads are set up, allows the user to leave

tracks playing while busying oneself with Wordsworth or ADpro. This is possible due to the Amiga audio signals and the 16-bit CD sound being fed via two phono leads (not provided) in to the Zappo drive.

Take one of them away and, with some CD games, you'll end up with only half the sound effects – Chaos Engine plays the intro sound directly off the CD but the games sound effects from the Amiga itself.

A headphone with volume control mounted on the front of the hardware has also been provided to aid your aural delight, and to keep everyone else around you going mad with the constant throbbing beat of Chaos Engine.

unit itself and a floppy disk worth its weight in gold. To launch yourself straight in to the delights of CD-based software, after connecting the drive simply slide the floppy in and turn the computer on.

By keeping the left-hand mouse button

down, the disk will automatically load in the CD boot utility which tells your Amiga to recognise the drive.

Once done, a menu appears with three differing options for the user to select from. Either boot from the CD (vital for all CD32 titles), rekick the machine with a custom built Workbench 3.1 emulator that allows your Amiga to recognise the drive, or boot your machine up as usual.

PURPOSE

The main purpose of the drive, other than the playing of audio CD's and taking a look at Photo CD's, is to play CD32 titles.

Using a software emulation utility instead of an actual planar chip, a majority of CD32 programs work on the Zappo drive.

Microcosm, Chaos Engine and *Ultimate Body Blows* are just some of the titles in respectable working order, but the likes of *Sabre Team* and *Impossible Mission 2025* are not compatible. While buying

CD32 software for the Zappo may be akin to playing Russian roulette with favourable odds, if you're gagging for the latest titles the Planar emulator works well, providing a high speed equivalent to that of a CD32.

If unsure about a particular game, try and buy from a independent retailer who'll usually be more happy about bringing the title back if it is not compatible. Only time will tell if the emulation software will keep up with the hopeful increasing amount of Akiko chip-specific titles.

At £199.95, the Zappo CD-ROM drive offers good value for money and a mainly hit and sometimes miss ratio when it comes to the back catalogue of CD32 gaming titles.

The question burning on every Amiga owner's lips though is whether it's worth

At £199.95, the Zappo CD-ROM drive offers good value for money and a mainly hit and sometimes miss ratio when it comes to the back catalogue of CD32 gaming titles.

waiting for the official Commodore beast or simply to hang loyalties out to dry and take the plunge now.

Rumour has it that the official Commodore CD1200 will be released for under £200, putting it in direct line of fire with the indie machine. The main advan-

Hard drive install

For hard drive owners, the installation of the software couldn't be more simple. Boot in Workbench and double-click on the disk. Press on the install icon and the package proceeds to install itself in all the relevant directories, including the start-up sequence.

Once done, copy the Photo CD displayer and the audio CD player across to the desired directory and you're ready to roll. By following the same process as floppy users, keep the left-hand mouse button pressed down and the CD Boot program will appear, awaiting your command.

tage that the Zappo hardware has over Commodore's is the use of the PCMCIA slot, but who's to say that on the release of the official drive, some enterprising independent won't have developed a handy expansion device that allows both the CD-ROM and accelerator cards to be plugged into the trapdoor port together.

The CD1200 will also boast the official Kickstart 3.1 on board instead of the Zappo's software emulator. As far as Full Motion Video goes, neither can do it so don't let that effect your buying decision.

The other advantage that the CD1200 has is that it will run all non-Mpeg CD32 games - there'll be no dicing with the cash at the local software emporium.

The inevitable answer to any question concerning a fair sized portion of one's earnings is to take your time.

If you have to have a drive, then go for the Zappo straight away but if, like most of us, it can wait a while, the CD1200 sounds like a promising addition to the Commodore range.



CD queue



Ultimate Body Blows



Impossible Mission



Microcosm



Sabre Team

Even though the likes of Microcosm use the CD32's Akiko chip extensively, the software emulator accompanying the Zappo CD drive gives the player the full, unhindered game. Likewise, Ultimate Body Blows from the CD32 version with the all-important extra joypad buttons can be played via your A1200.

For reasons beyond the bounds of this particular individual's understanding, both Sabre Team and Impossible Mission 2025 are non-starters. Booting up Sabre Team simply gives you the loading music and nothing else while IM 2025 plays the intro animation and proceeds to freeze up. My advice - try and check before you buy.

Will they or won't they?

The bottom line

Product: Zappo CD-ROM drive
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Ease of use	8
Implementation	8
Value for money	8
Overall	8

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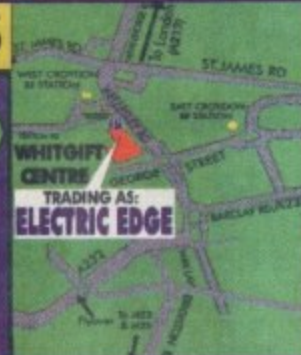
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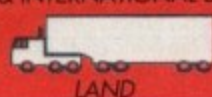


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Trails of destruction



It seems to me that most investigations of computer misuse revolve round pornography. Well, I have come across a disc that might change that. I haven't tested any of the things that are mentioned within this disc – how to create a bomb and how to make your own LSD – but the fact that this sort of information is available to the younger members of the computing fraternity is a concerning and worrying thought.

As to what should be done, I will leave that up to you, but I do urge you to inform other magazines of the availability of this information and to see what can be done.

S Madeley, Cheshire

Unfortunately, while there is a huge problem with

illegal or irresponsible material surfacing on computer screens across the planet, there is actually very little that anyone can do about it.

The information you draw our attention to has already appeared on a PC CD-ROM via a magazine which also included pornography as well.

As the information super highway and other forms of communication grow at an alarming rate, it will unfortunately become more and more difficult to monitor what is going on in the telephone lines and BBS' round the world.

It may sound depressing but at present, with the methods of detection available, we will just have to put up with it while keeping a watch on any material that may come our way. Spot anything dodgy and report it to the crime unit at ELSPA on 0386 830642.



with the message that after I had spent £1000 on a computer, every one concerned did not care that it didn't work and couldn't give a damn.

So now I am left with a Multisync monitor, extra drives, a small fortune in software, a whopper phone bill, lost wages from the time of work and no computer.

I am feeling very bitter towards: Not Wang who cannot repair without parts from Commodore; not the suppliers who cannot supply without the machines from Commodore; but COMMODORE who could not care less about their customers once they have sold them a computer.

The thing that gets me is that the Amiga is a great computer and it's what I want. I don't want a PC, MAC, ACORN or an ST. I wanted an Amiga but am left with no faith in Commodore.

J McKenny, Bradford

Unfortunately this is an all too familiar story. It's not that the A4000 is particularly prone to failure, it's simply another example of why Commodore went under.

In fact the story stands as a testament to the demise of CBM. Although the demand for machines has always been high, Commodore's inability to deliver is exactly why they went into liquidation.

Basically it's a classic tale of over expansion and a subsequent cash-flow

Given the run around

It takes me a long time to get mad about things, but as I write this letter I am well mad!

Recently I decided to sell my existing system and upgrade, and after a great deal of thought went for an A4000.

The shop ordered it and phoned to say it had been delivered, so off I went to pick up my new speed machine. In the shop he set it up to try it out, it was great, well for five minutes that is until it died.

So off it went and a new one arrived in two days, and it worked fine. I took it home and for one whole week fine, but then it also died. I phoned the shop who told me they could get another but did not know when as everybody was out of stock.

However, as it had NEXT DAY on-site warranty why not phone Wang. So I did and they phoned back to ask the problem, said they were out of parts and it would be a couple of days before they could get back to me.

One week later (two weeks old) I phoned them back to see where they were, they said they were still waiting for the parts from Commodore and gave me the phone num-

ber. When I phoned them they said they would phone Wang and sort it out, and then phone me back.

One week later (three weeks old) I phoned Commodore who said they had phoned Wang who were out of parts and had not phoned me back because there was no point.

Four days later I took it back to the shop who said they would sort it out. They phoned Wang, Commodore, their suppliers and got the same run around as I did.

After one week (five weeks old) of constant badgering and hours on the phone there was a new machine on its way. But after yet another week (six weeks old) they phoned me back to say there wasn't one on its way. They then gave me my money back

Gone under,
down under?



What's all this I hear about Commodore Australia and Commodore America having both gone bust? If these two companies have folded will it only be a measure of time before the one in the UK meets a similar fate? Okay, so a couple of Amiga mags have tried to reassure their readers that these problems will be sorted out in the near future, but will the company still be run along the same guidelines when (if!) it is sorted?

I am considering selling my Amiga now because I fear the worst in that Commodore are doomed to go under and if this happens then there will be nobody to continue producing this machine, leading to developers and software companies leaving it alone to die!

Do you honestly believe that Commodore can

right themselves again? Your assurances (if genuine) would be most grateful.

David O'Conner, Dinnington, S.Yorks

Obviously with the demise of the parent company, not to mention a major subsidiary, it's pretty tough talking about a silver lining and still keeping a straight face.

However, unbelievable as it may seem there's a glimmer of hope. Even though the CBM US have successfully turned a silk purse into a sows ear both the English and German divisions are still very much going concerns.

But perhaps more importantly they remain attractive buys for would-be investors. As you're no doubt aware, a whole host of big

names have been involved in negotiations, but at present Samsung still appear to be the hot favourites – see this month's news for more details. However there's yet another twist in the tale, with Commodore's European management team also entering the arena.

Obviously this doesn't exactly inspire confidence given their past record, but it must be stressed that in the past big decisions came from across the pond.

If Commodore do buy themselves out I'm sure they'll be a lot more astute. Basically, my advice is to sit back for a few months and let the dust settle. The technology is still strong, the demand is there, all that's required is an injection acumen.

disaster. This was due to dubious marketing – the A500+ followed almost immediately by the A600 and so on – all of which cost vast amounts of cash.

Unfortunately when demand rocketed with the release of the A1200 and A4000, Commodore were forced back to the creditors for additional cash in order to manufacture the machines the market was screaming for.

Not surprisingly they refused, demanding payment of the money already borrowed. At the moment Commodore as we know it is effectively dead, caught in a classic example of how cash-flow can kill the golden goose.

I only hope that when Commodore finally returns from the corporate wilderness they will have learned their lesson.

Boot-up hang ups

Firstly my congratulations on your excellent magazine. Being a comparative newcomer to the Amiga, I've run into a couple of minor problems I hope you can help me with.

I've recently installed a new hard drive on my A1500, and despite following the installation procedure religiously, I get a requester for "Volume work" each time I boot from cold. On warm reboot there is no problem. It's a minor annoyance, but I obviously need to update the startup-sequence in some way.

My second problem has existed since I installed a GVP 040 accelerator. The machine hangs on the boot-up – hot or cold – after my company name appears.

I've looked at the startup-sequence, but I'm not clever enough to see what could be the causing the problem. I hope you can proffer a few words of advice.

N Condon, Music & Motion, Brighton

Well you've certainly come to the right

I have in the last couple of months purchased an Amiga 500+. It's the first computer I have ever owned and to date have mainly used it for games. I have been offered a 40MB IDE hard drive which has led me to wonder about the Amiga as a sequencer.

In the past I have used dedicated Modules such as the Korg M1, but now I'm wondering how good the internal sounds on the Amiga can be? So, I'm writing to you for advice.

What I would like is a sequencer program that runs high-quality internal sounds from an external Midi keyboard. I've been playing round with the OctaMed program, and though this software is restricting and 1MB sounds leave little to be desired, it got me thinking.

If I had 40MB, could I get sounds that equal Modules like the Korg M1? I need a program that has effects like reverb and chorus and the ability to pan internal sounds across the stereo field, as well as having at least 16 tracks with full edit.

I buy your magazine every month and a few weeks ago a friend gave me the CoverDisk from an issue back in '93. On it was Bars&Pipes which is the closest to the program I'm trying to find, yet I could find no way of running internal sounds from an external source, nor could I pan the



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Sounds great

sounds across the stereo field. Am I hoping for too much? Will the Amiga run with an IDE hard drive and, if so, can I find the kind of sounds and program described?

Mr Camish, Bucks

The internal sounds on the Amiga are only 8-bit and, as a result, they can't match the 16-bit synthesis of the M1. There does seem to be some confusion on your part about the difference between hard drive space and RAM.

Amiga samples are almost always stored in RAM, therefore it's a RAM expansion that will most suit your requirements. Reverb, chorus and the like can only be added via sample processing software such as Audition4 or Audio Engineer. Once the desired effect is added they can then be used in your production.

Your suspicion about Bars&Pipes is correct – the full version allows complete integration of 8-bit samples into midi productions via a set of specialised tools which ship with the package.

By the way, IDE hard drives will work but you'll need an IDE controller as well. I believe Gasteiner sell edge connecting IDE controllers separately which would do the job.

place with the first question as we have our very own cold boot problem on one of our A3000.

In our case the problem appears to be the initialisation time of the drive. The 3000 in question runs an 040 which attempts to boot the machine very quickly.

Unfortunately the hard drive in the machine is a fairly slow replacement with can only manage a 17 millisecond access time. As a result, when the machine boots the 040 boots-up before the drive is up to speed, it therefore asks for a boot disk to be installed.

But as in your case, once warm rebooted the problem disappears. It might also be worth checking out the boot priority of drive in relation to any others on your system – assuming you have a second hard drive.

We decided long ago that it added character and as it never caused a problem it should be left alone – if it ain't completely broke don't make things any worse – an old computing adage.

Messing about with your startup-sequence isn't a very likely cure as your machine simply isn't getting that far into the boot sequence. So my advice would be to stick with the Vulcan death grip once a day just like we do.

As for your second point there is a solution. Firstly ensure the view command you use is before IPrefs in the startup-sequence.

Secondly ensure that the view command is running as a background task. Fortunately there's a few methods to achieve this. You can either use runback or Brun – both of which are small utilities widely available in the PD.

However, if you can't be bothered sifting through the PD there is an AmigaDos alternative. Simply add the line `run >NIL: <NIL:` followed by the path, the command name, and the file name.

Dirty dealings?

As a proud Amiga owner I thought it was necessary to write to your magazine so you could warn other Amiga owners about a PD company that owes me 28 disks for a deal we made, and I have waited more than six months for and not received the disks! The deal was as follows;

They offered to swap ten PD disks for each commercial title that is sent to them, so I sent five of my commercial disks – all boxed – hoping to get 50 PD titles in their place. I have only received 22 of the 50 disks from them.

I tried calling the PD library – which is a small PD library owned by a man and his family – and the man who answered pretended it was a wrong number!

I am 100% sure it was the right number because I called the same number again and he answered with the name of the library in question.

I would appreciate it if you could warn your readers about the potential risks involved in such transactions.

Sharif Al-om, Yateley, Surrey

Well, first of all I must say that because it proved impossible to contact the library – and therefore hear their side of the story – it was only fair to remove the name of the library in question.

However, even without naming names this does raise an interesting point. In the early days the PD provided a small island of socialist ideals in a sea of commercial software.

But like everywhere else, big business has invaded this utopian isle. And inevitably, in its wake came the usual small group of undesirables.

Basically the moral of this story is to get some form of written confirmation from the vendor before posting anything.

At least then you'll have a fighting chance in the small claims. If the argument comes down to your word against theirs anything could happen. It's even possible that they could make a counter claim for deformation of character.

Obviously, written confirmation isn't always a realistic option when ordering just a few disks, but when serious money is involved it's madness to rely on word of mouth alone.

As far as ordering PD in general is concerned, it's wise to stick with the bigger libraries or those which advertise regularly in the magazines. Obviously this tends to preclude the smaller libraries.

However, this doesn't mean they should be ignored. Simply use a little caution until you're confident of their ability to produce the goods.

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Workbench magic

As a user of Magic WB (of which I have had no problems) I am very keen to create some Workbench and window images that users can load into WPattern in the Prefs directory.

As I understand it, only a maximum of eight colours can be altered, even if you use a 256 Workbench. So how can I create images in DPaint if I don't know what colours are being used?

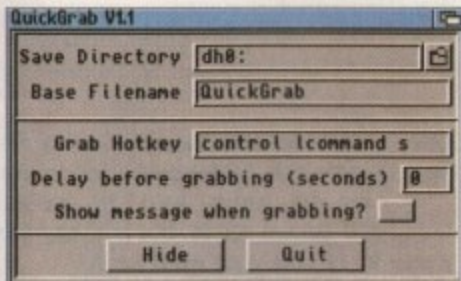
J. Redman, Brighton

Commodore should have offered the facility for A1200 owners to edit all the colours in the Workbench palette, from two to 256 colours.

My suggestion would be that you try and get hold of some screen grabbing program which will allow you to grab an image of the Workbench screen, colours and all.

You can then load the image into DPaint and save the palette out so that you can apply it to any patterns you create.

There are two very good screen grabbers for the Amiga and these are Quickgrab (which we use to grab pictures for the magazine) and ScreenX. Both of these programs are available in PD listing, so check the adverts for more information.



Quickgrab will allow you to grab a screen from your Workbench, therefore allowing you access to the palette

Yet another mixed bag
of computer worries
comes under the
surgeons knife in time
for a speedy recovery

Window explosions

Along with a group of friends, I am creating a disk-based magazine for graphic artists, 3D and 2D. As we know very little about AmigaDOS we decided to use the *Amiga Computing* CoverDisk contents in order to create an auto-booting disk.

Another reason for using your CoverDisks is that they use a very useful Shell window at the bottom of the screen which we needed to include.

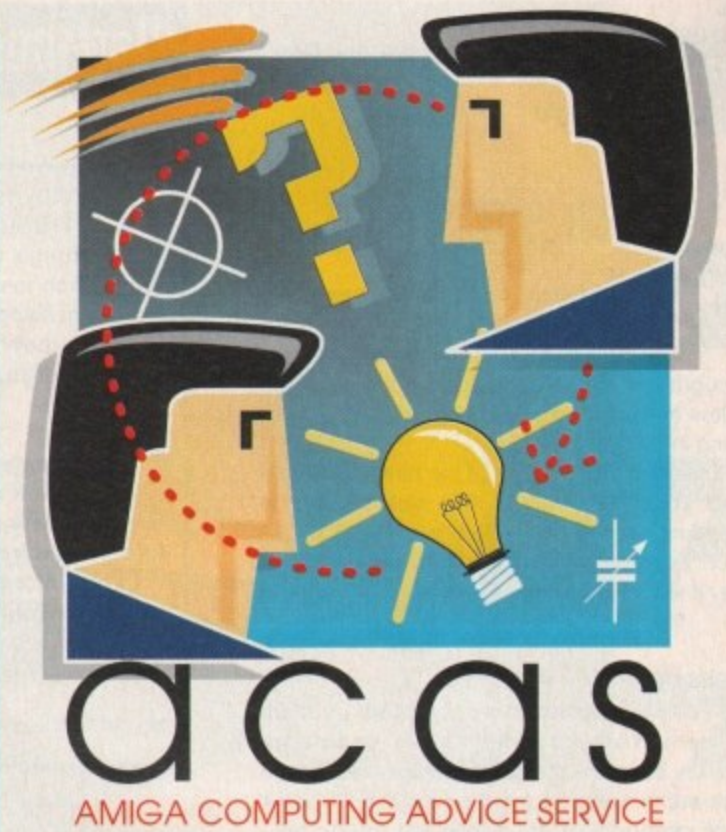
It is the Shell window where our problems arise. When this window appears it does so at full screen size, that is 640x256, which is obviously no good at all.

I understand it is the Winsize command that allows you to alter the dimensions of a window, but for some reason it just does not want to work. We are using A600s and each have 1Meg RAM expansions. Is there any reason why this isn't working?

M. Wavell, Bristol

The first problem you've got is Workbench 2.0. The Winsize command was originally written for Workbench 1.3 and was not modified to be used with Workbench 2.0. So how do we do it?

The trick here is to install the disk you



are using with a 1.3 bootblock. If you know anyone with an A500 you should be able to get hold of the 1.3 Install command. You may even find it in the C directory of our CoverDisks as well. The Winsize command seems to clash with 2.0 bootblocks.

Once you have access to it, you should rename the install command Install1.3 and copy it to your C directory.

Whenever you next format a disk that you want to use the Winsize command with, type in the following in your Workbench Shell:

```
install1.3 df0:
```

This will create a 1.3 bootblock on the disk in df0: which will allow you to run

AmigaGuide or Multiview

At present I am writing a piece of software that will allow Amiga owners to change the look of their Workbench windows. The program is nearly finished so I have started to write the documentation.

As I own an A1200 I have decided to use the AmigaGuide format with Multiview. However, I realise that Workbench 2.0 doesn't support Multiview, so I am now using the official AmigaGuide program which both Workbench 2.0 and 3.0 users can use.

Unfortunately, every time I load the file into AmigaGuide it crashes my machine.

M. Clarke, Newcastle

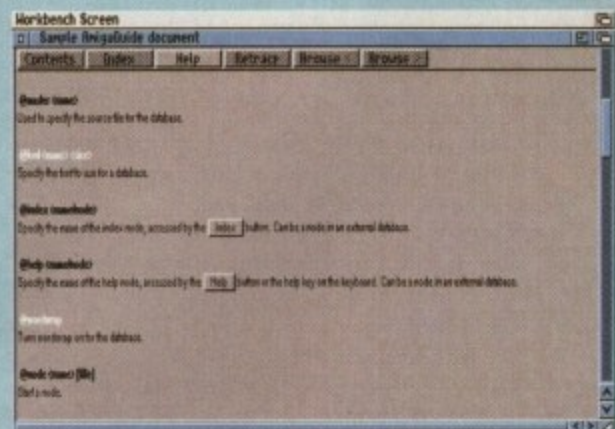
In my experience, and contrary to the associated documentation, AmigaGuide is not totally compatible with AmigaGuide style tags.

When I received my AmigaGuide package a Sample.guide was provided which shows the different tags and their effects. This works fine in Multiview but looks awful in AmigaGuide in which none of the tag effects show up.

If you have any text formatting tags such as @{b} or @{i} you should remove them, as they do tend to have a damaging effect. The @Wordwrap command also fails to work in AmigaGuide and text tends to flood of the right edge which you need to scroll.

Another error occurs in Multiview when a word or series of words that have style tags have to be word wrapped. For some reason the information is simply split across two lines and whatever the letter was where the

split occurred disappears. My advice would be to stick with the standard ASCII document until AmigaGuide is improved.



Multiview works almost bug-free but AmigaGuide seems to be fraught with problems

the Winsize command successfully. Don't worry, your disk will maintain compatibility with Workbench 2.0 and above.

Which slots wot

I have an A1200, 120Mb hard drive with an 8Mb fast RAM (Blizzard 1200) expansion in the trap door. I bought this powerful set-up so that it would allow me to use my HP 550c printer for dabbling in DTP.

I really would like one of the new CD-ROMS that attach via the PCMCIA slot. Would the trapdoor expansion interfere with the PCMCIA slot? I called Indi Direct and they said no. Silica say it would.

A. Stephen, Bellshill

If you own more than 4Mb of 32-bit RAM you may have problems because the extra memory resides in the same address location as the PCMCIA slot memory. We have been currently testing the Zappo CD-ROM with a 4Mb upgrade and have had no clashes with RAM expansions or accelerators.

Commodore's official 1200 CD drive should be out in about two months but this will plug into the trap door expansion, making accelerators and RAM boards totally redundant (that's Commodore for you).

My advice is to take a long look at the Zappo as it is by far the best option so far – just remember that you will be limited to only 4Mb expansion. For more information contact Indi Direct Mail on 0543 419999.

Reach for the skies

I sympathise with K. Leemer (Issue 77) with respect to Beneath a Steel Sky on the A1200. However, rather than throw the game disks around the room

Workbench won't wait



Why is it that when I copy files into my WBStartup drawer and then re-boot my Amiga a message appears shortly after Workbench loads informing me that the application has not quit and should it wait some more.

This is really annoying me as I am fairly proud of my Workbench. I own an A1200.

C. Burns, Devon



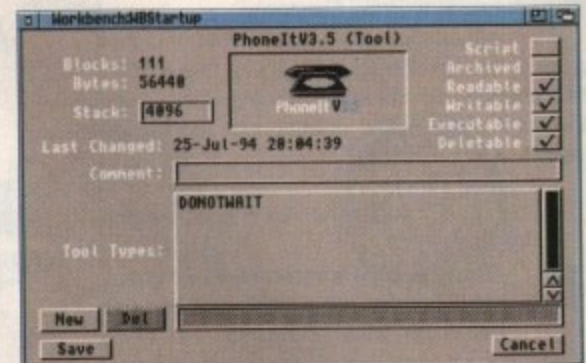
If only all ACAS letters were this simple. Click once on the program icons you have in your WBStartup drawer and select Information from the Icons menu option.

In the Information window click on New to create a new Tool Type and then type in:

DONOTWAIT

Save this down and you should have no more

problems. The DONOTWAIT command is a system command that tells Workbench to ignore the program once executed and carry on with any other tasks.



DONOTWAIT will allow Workbench to continue its tasks while loading programs in the WBStartup drawer



You got problems too? Then drop a line to Amiga Computing Advice Service, Europa House, Adlington Park, Marclesfield SK10 4NP and we'll move heaven and earth to help in these columns. But sorry, we cannot reply personally, so save those SAs

and waste a very good game in the process, how about trying this handy tip?

The problem lies with the AGA screen on the A1200. In order to play the game without an AGA screen follow these instructions:

1. Boot the A1200, holding down both mouse buttons to enable the set-up screen.
2. Select Boot with no startup-sequence.
3. Move to the root directory of Beneath a Steel Sky on your hard drive by typing:

```
cd (path of B.A.S.Sky)
```

```
(for example cd Work:Games/SteelSky)
```

4. Type:

```
SteelSky
```

5. Enjoy a bug-free game of Beneath a Steel Sky.

A. Hutchinson, Northumberland



I would have thought that to disable the AGA screen mode you would have had to select Enhanced screen mode, but you say this works so I'll take your word for it.

Unfortunately, I couldn't test your solution as it takes about ten years to actually install the thing. Thanks anyway.

More storage



When the A600 first came out I decided to purchase one that included a hard drive. Admitting my lack of foresight, I bought an A600 with only a 20Mb hard drive. A 20Mb hard drive was totally sufficient at first, but since that time I have become more proficient with my Amiga and its software and now find I am seriously running out of room.

I have tried LHA to compress data but find it so annoying having to decompress it again for just one picture, or sound sample. Besides forking out for a new and bigger hard drive, is there any other option I can consider?

D. Johns, Rhyl



I can understand your dilemma, a 20Mb hard drive is simply not enough, especially as Workbench and its associated files can eat up a hell of a lot of that space.

There are solutions, however. It would be wise for you to consider a larger drive in the future – nothing less than 65Mb – but there are programs that will increase your storage capacity without the need to spend large sums of money.

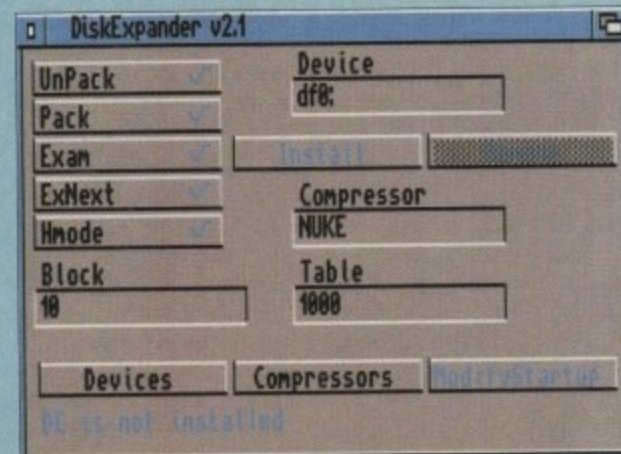
The best packing and de-packing programs are PowerPacker 2.0 and Disk Expander. PowerPacker will simply crunch files and auto-expand them when they are run.

Disk Expander will crunch entire hard drives using some very fast and powerful crunching algorithms. It is totally invisible to the user and can be instructed to compress files as they are copied to your hard drive. The

only time it can prove dangerous is when the user fails to follow the instructions correctly.

In certain circumstances, Disk Expander has been known to increase storage by 50% which is quite amazing.

Unfortunately, I couldn't locate exactly who it is that is distributing PowerPacker Professional these days, but DiskExpander is available from Power Computing on 0243 273000 for only £35.



Disk Expander can increase your hard drive storage capacity by up to 50 per cent

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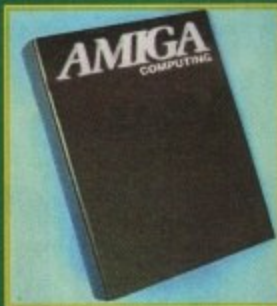
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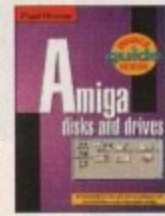
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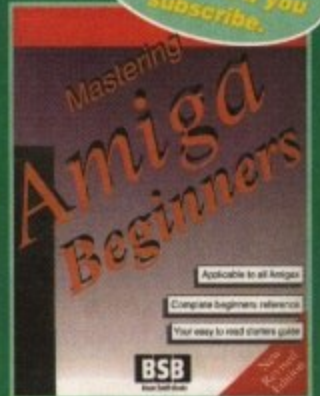


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Zool 2

This widely acclaimed game follows Zool's travels through a further six huge levels, larger than those in the original, that feature a number of different ways of completion.

Zool has new and special abilities, including expert climbing skills and is now accompanied by his pet dog, Zoon. With great sound effects, hidden bonus rooms, highly intelligent enemies and the choice to play Zooz, Zool's girlfriend (shown here), Zool 2 makes an excellent free gift.

Zool 2 is suitable for any machine, though A1200 owners can choose an enhanced version (see order form).



Save £25.99

As far as 2D design goes, Deluxe Paint from Electronic Arts had, until recently, held the crown, but with the advent of Brilliance from Digital Creations all that changed. Now, Brilliance has been upgraded and looks set to leave DPaint even further behind.

Brilliance 2.0 not only features a superb and fully illustrated manual but also two versions of the software, Brilliance – which is a register version allowing you to paint in 2, 4, 8, 16, 32, 64, 128 and 256 colours – and TrueBrilliance – the same program which is specially written to handle HAM screen modes easily and quickly.

DeluxePaint tried to combine both these attributes in one package but the result was a program which worked fine in register mode but tripped and slipped in HAM. Taking a

There is very little demonstration artwork supplied but what there is of it is very high quality



In the continuing battle for the ultimate 2D graphics application, Cloanto have returned into the fray with Personal Paint 6.0, battling against the now ageing Deluxe Paint 4 and the crown holder Brilliance 2.0.

From the outside, Personal Paint looks identical to its forerunner 4.0 featuring the now customary, and much appreciated, Commodore installer, making installation a breeze.

And to all intents and purposes version 6.0 looks identical when loaded. However, a quick flip through the menu and the differences become instantly recognisable.

Probably the most major additions are the new animation facilities. Animation has had a long-time association with Deluxe Paint and Brilliance but only now have Cloanto included it with their paint package. Unfortunately, the

The personal

step back to the manual, Digital Creations have provided tutorials for the beginner and a quickstart section for those used to DPaint.

Also provided is a very thorough reference section which provides examples from almost all the tools available. When compared to the DPaint manual it is slightly less informative, but Brilliance is such an easy program to use there isn't much call for hefty explanation.

SUPERIORITY

Users of the previous Brilliance package will already have been convinced of its superiority over DPaint and Personal Paint, but for those users still working with these packages a fair amount of convincing is going to be needed, especially as DPaint has become the default art package for Amiga artists.

Unlike DPaint and Personal Paint, Brilliance takes a new approach to the pull-down menu style of option selection and offers a variety of panels which are stacked at the bottom of the screen.

Combine these with the hotkey definitions which can be assigned to panels via the keypad and you've got a powerful and flexible design interface which is quick to access and totally programmable.

The program offers all the tools and options available in DPaint and more. Digital Creations have definitely thought long and hard about Brilliance and seems to have perfected what so many other companies have failed – a paint package that superceeds DPaint in all respects.

Tool wise, Brilliance is literally overflowing with familiar, and some not-so-familiar, drawing methods that make image creation a

Pure

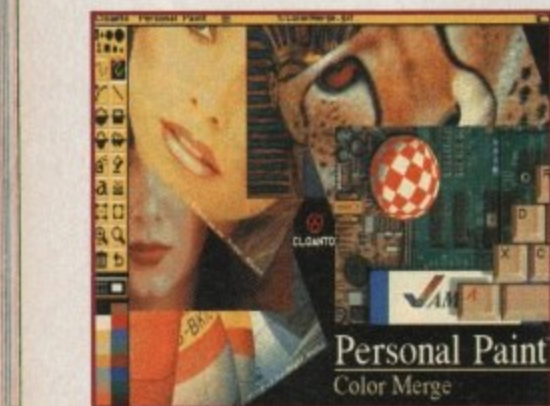
breeze. In fact, this is certainly one of the most attractive areas of Brilliance – its user-friendliness.

Animation, stenciling and gradient fills have also been included in Brilliance but have been much improved over DPaint. Unlike DPaint, Brilliance has the ability to tween brushes – that is to take a starting image and end image and then fill in the necessary images in-between.

Certainly, two of the most annoying problems in DPaint are the single Undo and



All the features associated with Deluxe Paint are available, and plenty more besides. The magnify is extremely versatile



This is an example of Personal Paint 6.0's colour remapping abilities. The quality looks great even with only 16 colours

animation is severely lacking in flexibility and design. A very useful storyboard window has been added, allowing the user total control over how his or her animation runs, but there is nothing that rivals DPaint's Move requester or Brilliance's tweening ability.

Any animation techniques must be applied by hand. There are some very useful additions, like new compression ratios which can reduce the size of an animation dramatically, and the ability to create animations with varying palettes and frame by frame timing which have been neglected by DPaint and Brilliance.

Multi-palette animations are extremely useful and can be viewed externally by using View V3.6 or ViewTek which are available from most reputable PD libraries.

Personal Paint 6.0 also features a very useful virtual memory option in which inactive image data can be stored for later retrieval. The size of the virtual memory is totally definable but is automatically defined by the



Although the image processing effects are many and provide excellent results, they are painfully slow even on accelerated Amigas

program when there is a memory shortage.

When a memory shortage occurs, Personal Paint 6.0 will 'clean up' the virtual memory, leaving only the most recently used item – the less used material being stored on disk. When images within the VM need to

Brilliance

Steve White test drives the latest version of Brilliance to find out what all the fuss is about

toolbox fill and draw modes. The latter fails to fill or draw underneath the area occupied by the toolbar, when it is present. Imagine drawing a circle that disappears underneath the toolbar. When the toolbar is removed any image under it is erased.

DPaint also supplies only a single undo option and if the toolbar is enabled after a mistake, the undo facility has no effect.

ATTRIBUTES

Brilliance to the rescue. Not only does Brilliance perform all drawing functions under the tool panels but also has a definable amount of undos, restricted only by available memory. These attributes, and many more, can be edited in the Brilliance icon's Tool Types. You can even select the default pathnames for pictures, animations and brushes etc - something severely lacking in DPaint. Interface aside, Brilliance is also a damn

sight faster than DPaint and Personal Paint and can perform some operations faster on a 68000 than DPaint can on a 68020.

True Brilliance, the HAM version makes working in HAM (Hold And Modify) a pleasure, something that DPaint tried desperately to manage but failed so miserably.

For Brilliance upgraders the differences between the previous version are mostly invisible. The drawing routines have been rewritten and are now a lot faster as a result of customer feedback.

New animation formats have also been supported and apart from the standard ANIM5 format, also include Op-5, Op-8 (Word), Op-8 (Long) and single frames.

Most of these formats are not fully supported yet, but when they are Brilliance will be at the front of the queue as far as compatibility goes.



Verdict

There is certainly no doubt that Brilliance is the most competent 2D package available for the Amiga, and Electronic Arts will have to provide something very special with DPaint 5 if they are to claim back their crown.

I have been using DPaint ever since the first version but since using Brilliance it has been removed from my hard drive, and is unlikely to ever reappear.



The bottom line

Product: Brilliance 2.0
Supplier: Meridian
Price: £84.95
Tel: 081-543 3500

Ease of use	9
Implementation	9
Value for money	9
Overall	9

touch

Can the latest version of Personal Paint tackle the might of Deluxe Paint 4 and Brilliance 2.0? Steve White finds out...

be displayed, they are done so automatically.

Cloanto have now added support for Retargetable Graphics boards such as Picasso, Retina, Rainbow, EGS and Talon, which allows users of these boards total access to all Personal Paint 6.0 features in an environment where the board is used to full potential.

ADDITIONS

As well as these new additions, Personal Paint 6.0 still features its plethora of image processing functions as well as a few new additions including transparency.

As far as image processing in a 2D art package goes, Personal Paint 6.0 still holds the crown. The down side of these image effects is that they are painfully slow, even on a A1200 with 4Mb Fast RAM and an 030 accelerator with FPU.

Still one of the most powerful attributes of this program is its colour remapping ability which is rivalled by none other. A great



The animation requester features frame thumbnails allowing you total control over how your animation is created. No tweening or move requesters, though

example picture is supplied with Personal Paint 6.0 and shows about six high quality images, obviously with different palettes, combined into one with only a slight degradation of quality.

Not so wondrous you may think, but when you consider that this image is only 16 colours you can't fail to be impressed.



Verdict

As far as users of Personal Paint 4.0 are concerned, V6.0 is a welcome upgrade, especially with the addition of animation. However, Cloanto still have to go quite a distance before they rival animation features as seen in Deluxe Paint 4 and Brilliance 2.0.

As far as value for money is concerned, Personal Paint 6.0 is still very good but Cloanto must seriously consider animation aids and perspective before their next release. If they can maintain the price tag they could be onto a winner.

The bottom line

Product: Personal Paint 6.0
Supplier: Ramiga International Ltd
Price: £69.95
Tel: 0690 770304

Ease of use	7
Implementation	7
Value for money	8
Overall	7

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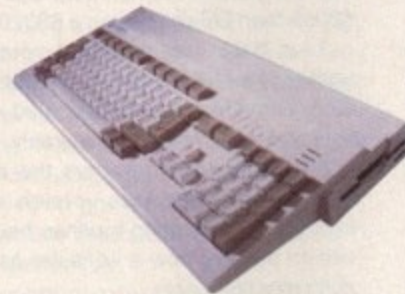
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It only seems like a short while ago that a 2400 baud modem was a pretty fast thing, and you know, after you had one for a while you began to wonder how you ever managed without it.

Then 4800 baud modems came out and you began to wonder about your concept of speed. These were very shortly followed by 9600 and 14400 baud modems, and in what seemed like a quarter of the time.

So sure enough we find ourselves in the present looking down both barrels of a 28800 baud modem. Who'd have thought it? And not only is it double the speed of the modems we are all using, but it's only £285.53, rather than the £600 you used to have to pay for a 14400 when they first came out.

The pace of technology is a baffling thing, and it seems a bit worrying to buy anything like this in this day and age when it's becoming alarmingly apparent that almost everything we buy for our Amiga is almost out of date before we wrestle it out of the box.

IDENTITY

You'd be forgiven for mistaking the 288 for a regular 14400 modem just by looking at it, as it's enclosed in the self-same brushed aluminium case with black ends. But it's a very different beast inside.

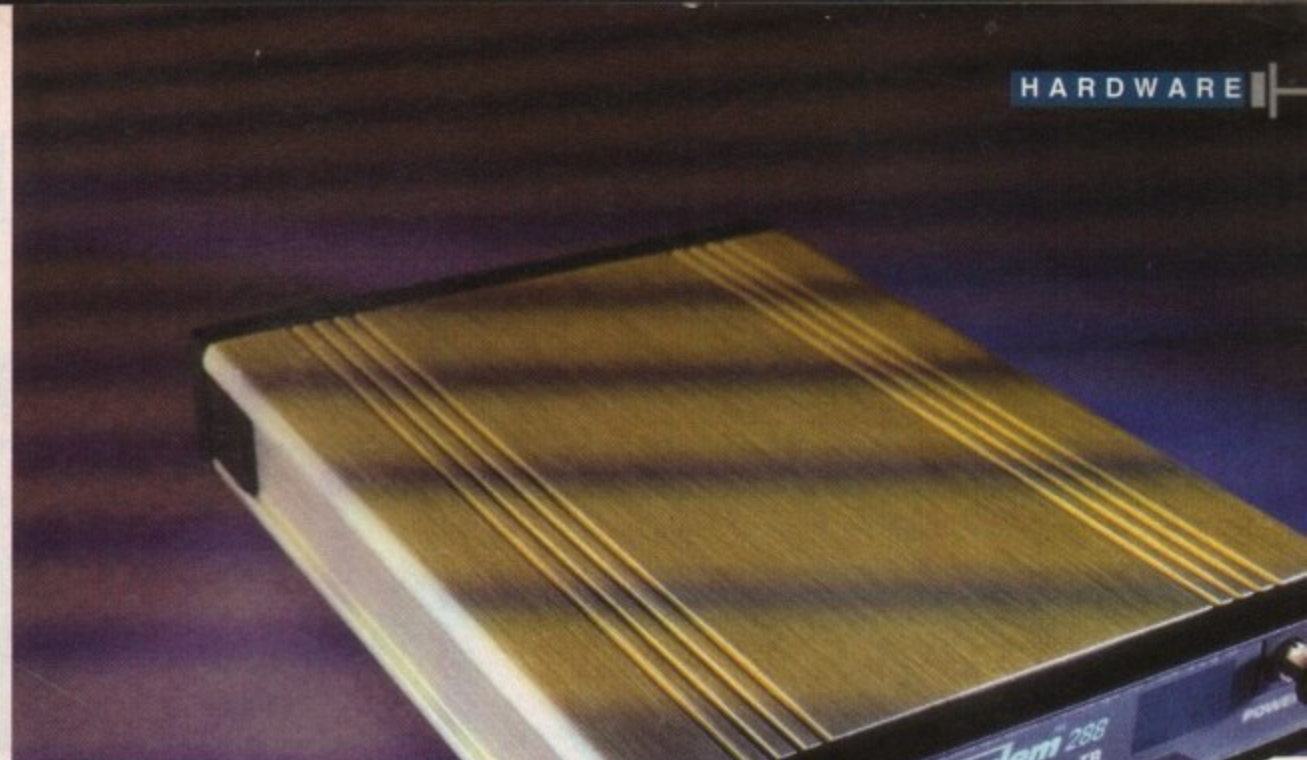
What you are in fact looking at is a 28800 baud modem (I still get a kick out of saying that) which runs at 28800 baud for data, 14400 for fax (although I've yet to encounter a fax which runs faster than 4800 or 9600) and MNP modes 2 to 5 plus mode 10.

What this means in plain English is that as far as data transfer is concerned, this thing sends stuff before you press the send button - it's that fast.

The MNP part relates to Miracom Networking Protocol and is a form of data error correction and compression which allows for faster and more reliable operating speeds.

MNP 2-4 is what is also known as LAPM or V42 and this is an error correction method, which means that checksums are sent and received by modem and remote host to ensure what is sent is complete and not corrupted by line noise.

In the days before this standard we spent more time on-line saying "please re-send, line noise," and comms was less like an



Super Fax Modem 288

Phil South takes a look at one of the new Supra UFast modems, clocking in at a blistering 28,800 baud

Information Highway and more like a tatty CB club.

Then MNP 5 came along and not only were you error corrected but you had a 2:1 compression going too, so everything was

faster. MNP 10 is a new protocol which allows for cellular connection, and is a much tougher error correction format for those nasty buzzy things that men in suits have growing out of their ears in trains. (Cell phones, not hairs, you big dummy.)

Another exciting thing (in among all the other things to get happy about in this great new device) is that it can initiate and adapt to rate changes.

SPEEDS

Not impressed? Okay how about the fact it can change operating speeds mid call. Yes, it can change gear on the fly, and that's worth a yelp of glee if nothing is.

There are copious other benefits, but unfortunately not much Amiga software exists to take advantage of them. For future reference (and for the benefit of anyone who'd like to support these features,) it can distinguish between fax and voice calls, using a process called Adaptive Answer.

A nice bonus for those of us who are always getting our ears cleaned out by having a fax screech down the phone at us.

Hey, bonus

So is it the bee's nose? Well, it's a very fast piece of kit, and up to Supra's usual high standards of manufacture. Obviously it's too new to speculate about ROM problems similar to those which dogged the 14400 for so long. Only time will tell on that score.

I did hear that ROMs in this case are actually EEPROMs, which can be re-programmed by software upgrade files. You do get the usual nicely printed and pretty rationally written manuals which tell you the technical stuff, but also point out all that you really need to know.

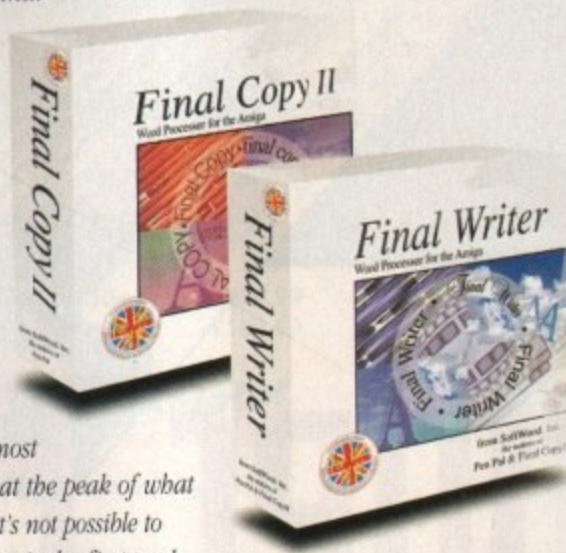
So is it a bargain the size of a hippo's bum? You betcha. And if I hadn't just shelled out for a 14400 only about 10 months ago I'd be on the blower to First Computer Centre (0532 319444) right now to order one.

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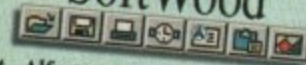
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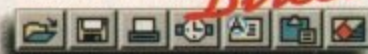
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Tabby graphics tablet



There will be a great deal of you out there who, having tired of the boundaries placed by lesser paint packages, would like to move into the heady realms of 24-bit.

The problem? Achieving this standard of work requires large financial investment in the shape of a dedicated graphics tablet.

The cheaper solution has always been to use a stylus that fits directly into the mouse port. Unfortunately, this would-be mouse emulation has always struggled to generate any real feel or accuracy.

However, Tabby could be the answer to all Amiga artists' dread. It's a graphics tablet that offers the precision of a serial device with the ability to diversify through a range of packages.

Having said this, when Tabby first emerged from its box I was more than apprehensive about the working area that the user is given - 128mm by 96mm.

But, despite the apparent lack of space Tabby works surprisingly well. The stylus responds incredibly well, and sits very securely in the hand.

Far from feeling cramped, the tablet performs perfectly and gives the user confidence to attempt even the most intricate of tasks.

In the looks department, Tabby is very well groomed. The whole tablet tilts at a shallow angle, and sits snugly on four rub-



ber legs. The angle of the tablet definitely makes work lighter, and the legs really anchor it to your workstation.

The business end of things, in the shape of the stylus, is connected to the tablet via a cable. Ergonomically, the stylus feels very natural and extremely comfortable in the hand, with the front end squared off with a rest to accommodate your forefinger. In addition, a small metal strip sits above this rest with the sole purpose of providing a means of earthing the pen, thus minimising the magnetic distortion that can occur. Another advantage of Tabby is that because it fits into the serial port and uses a driver system which installs, you can use a standard mouse in conjunction.

I found Tabby to be a very economical way of achieving impressive results using a system that encourages a natural ease, and should bring the best out of any pixel artist. In fact, this could be the Tabby that finally caught the mouse, and got the cream.

Supplier: First Computer Centre
 Phone: 0532 319444
 Price: £49.95
 Ergonomics: 7
 Speed: 7
 Overall: 8

Alternative input

*Looking to update some of your existing peripherals
 or just fancy trying out something a little different?
 Simon Clays guides you round the mousetraps*

AlfaOptic optical mouse

One of the biggest problems Amiga owners are going to face using the contemporary opto-mechanical mouse is blockage. This normally occurs when the internal plastic rollers become contaminated with dust and fluff.

The net result is a complete headache with the mouse sticking or moving erratically. One solution is nothing more than a good clean out, the other is to take rollers out of the equation totally, and go optical.

An optical mouse reads dot information from a special mouse mat, instead of using rollers. However, while you won't have many problems with dirt, the movement on optical mice has been criticised for lack of feeling, and they have the notorious habit of losing their whereabouts when moved too quickly. But what about the Alfa optical mouse?

Well, on the catwalk (shouldn't that be mousewalk?) of ergonomics it's not the most graceful looking animal. It has a bulky look that gives the user expectations of a sturdy mouse. The reality is that Alfa is really quite light and feels fairly insubstantial.

The Alfa also comes with a handy little holder so you can attach it to the side of your monitor. This seems more of a gimmick than a practicality but who's going to really moan; after all it's a freebie.

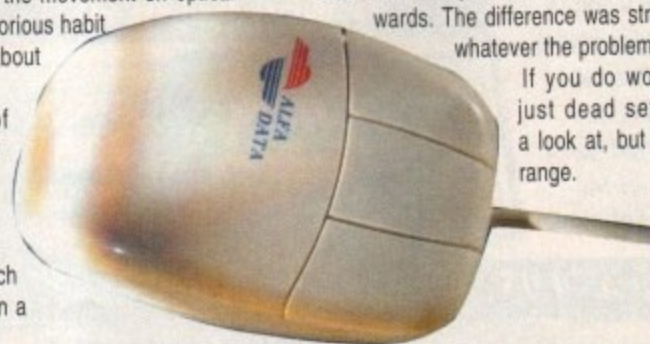
It also lacks the grace that the Gasteiner dpi 400 has, and feels fairly uncomfortable when used. Buttonwise, you've got three, rather than the standard two buttoned mouse.

This is for the benefit of our PC counterparts to a large extent, but there are Amiga applications out there that can utilise this feature. The acid test came when we decided to try it out on DPaint. What a let down.

After feeling fairly comfortable on desktop operations, it came as some surprise to find out that the optical mouse stuttered and stammered around the drawing window and struggled intensely to produce anything like a smooth arc or circle, despite its 300 dpi.

As a small comparison we decided to try out the Gasteiner 400 dpi immediately afterwards. The difference was striking and made my mind up which I would choose, whatever the problems with clogging.

If you do work in an extremely dusty environment, or are just dead set on an optical mouse, then the Alfa is worth a look at, but it would also be advisable to examine the Nashka range.



Supplier: Golden Image
 Phone: 081-365 1102
 Price: £29.00
 Ergonomics: 4
 Speed: 5
 Overall: 3

AlfaPen Optical Pen Mouse

Along with clogging problems, the other dilemma some users find is mouse control. After all, when using an art package, attempting to draw accurately with a mouse isn't as natural as using pencil shaped. With this in mind, Alfa Data have released the AlfaPen optical pen mouse.

The optical pen employs a similar system to the standard optical mouse. It reads its position via an infra-red beam which, using a horizontal and vertical grid, converts the information into your screen position. Like its optical counterpart, the AlfaPen uses a three button approach when in use. Located at what we'll call the nib end, the largest of the three buttons acts as the left mouse button.

Behind the largest of these buttons sit two other smaller buttons. The button on the right hand side acts in the same capacity as the right mouse button, while the left button gives you that extra dimension when using applications that allow its use.

AlfaPen doesn't feel too bad in the hand - it's light and not at all cumbersome when you use it. However, when you attempt to use the buttons, implementation is not so easy.

The buttons are very closely grouped, and even the most coordinated and dextrous of you will struggle to use this arrangement proficiently.



If I gave the AlfaPen the benefit of the doubt I'd say that its use could be described as a little like using chopsticks - totally alien at first, but the more you use them the more accomplished you become.

Unfortunately, the AlfaPen suffers similar problems to its companion. Again, DPaint became the benchmark test, and while AlfaPen feels more natural to draw with, the arcs drawn had no particular accuracy and felt jerky.

AlfaPen also suffered when moved around the mat too suddenly. Despite its 300 dpi, it struggled to locate itself.

Also, when you're using the AlfaPen you have a tendency to angle the pen back, like it was a real pen. Unfortunately it's not, and the net result is a loss of contact to the mat.

Ultimately, however much you might feel you need an optical pen, when you get one up and running you might just feel that you've wasted your money.

Supplier: Golden Image
Phone: 081-365 1102
Price: £34.00
Ergonomics: 5
Speed: 6
Overall: 5

Gasteiner 200 DPI mouse

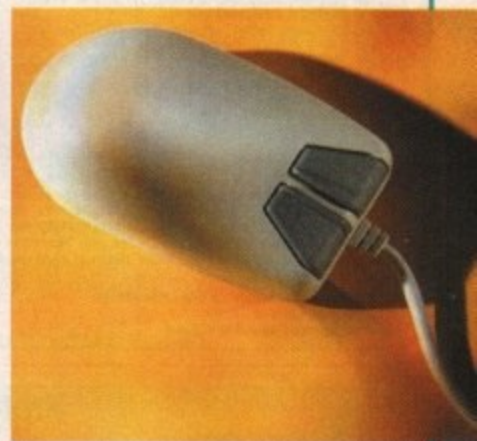
Although the Commodore mouse has come on leaps and bounds thanks to the A600, A1200 and A4000, there's still plenty of room for improvement.

This is more than apparent if you plan to use your mouse in conjunction with an art package for anything in the artistic vein. Many of the mice available to the user can set you back anything up to the region of £20 for something that exists within the 280-290 dpi range.

Certainly Silica's Nashka, which is a sturdy all rounder, and the squared off Contriver mouse slot nicely into this bracket.

With this in mind, Gasteiner launched a 280 dpi mouse that retails at the bargain price of £6.99. Okay, it uses membrane switches as opposed to micro-switches to coordinate its buttons, but it does have many saving graces.

For one, it's damn good value for money -



Gasteiner 400 dpi mouse

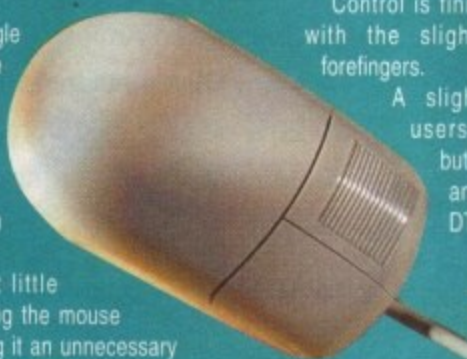
The Amiga was one of the first home computers to use the now commonplace means of interaction between the user and the computer - the mouse.

Previously, movement had been carried out via the cursor keys, a system that made the relatively simple mouse seem light years ahead technologically.

But, since the implementation of the mechanical rodent, what further progress has actually been made? Well, not much really, aside from cosmetic things like lead length, free game and novelty mice teeth painted on to the side of your handset.

Perhaps the greatest single step forward was the improvement of dpi (dots per inch) speed, which governs how much horizontal and vertical information the Amiga can pick up per inch of space.

This always costs that little extra, with most people using the mouse for standard practices feeling it an unnecessary luxury. Well, Gasteiner's 400 dpi mouse knocks all of that into touch. Its £15 price tag makes it just about the cheapest 400 dpi mouse on the market. But, as a cus-



tommer, what is the price you pay for this economy? Simple, none. Gasteiner's 400 glides across the mat with a grace that leaves other rodents and cavs floundering in the straw.

It tracks across the screen with such ease that you hardly need flick your wrist, and the space necessary to operate it is negligible.

On the ergonomics front, again the Gasteiner 400 dpi is a treat. Its small body is much sturdier than you'd believe its price would command, and sits in the palm of the hand very comfortably.

Control is finite and the micro-switches respond with the slightest muscle spasm from your forefingers.

A slight niggle might be that some users would find it too sensitive, but for my cash the Gasteiner 400 dpi is an excellent tool to use alongside any DTP or art package.

Supplier: Gasteiner
Phone: 081-345 6000
Price: £14.99
Ergonomics: 8
Speed: 8
Overall: 9

who could moan at this price? If anything, it could put you off because it's too cheap. Well, I assure you there's nothing to be frightened of.

Gasteiner's budget rodent feels extremely comfortable to the touch and fits the ergonomics of the hand very well. It feels very sturdy and your fingers reach the two buttons with ease.

The other aspect to consider with this mouse is its aesthetic qualities. Although it's a simple design it looks robust and the two deep grey mouse buttons offset the light grey of the main body very effectively.

On the down-side, opto-mechanical design means the occasional cleaning of the ball and roller, but again, that's only a short and very temporary inconvenience.

Overall, Gasteiner have produced a mouse that, although technologically outwitted, can live alongside its rodent counterparts when it comes to accuracy and overall performance.

Supplier: Gasteiner
Phone: 081-345 6000
Price: £6.99
Ergonomics: 6
Speed: 5
Overall: 6

As discussed in the first tutorial, the screen is the basic drawing board for all your visible operations within the workbench environment. But, instead of using the workbench screen, I am going to show you how to use your own screen by taking you through the steps of writing a basic picture displayer. (Oooooohh!)

As you are probably familiar with, the Amiga is capable of displaying pictures or information in many different modes. Such modes include Lores, Hires, Interlace and even HAM. I can't explain all these modes in this article, so I will just use the two most commonly known modes: Lores and Hires.

● **Lores:** This is the lowest display mode for the Amiga to use and is the preferred drawing mode of most graphic artists. In Lores mode the Amiga can display 256 lines from top to bottom, with each line consisting of 320 dots. In this mode the standard Amiga 500 can display a maximum of 32 true colours, whereas the Amiga 1200 can display 256 true colours.

● **Hires:** As the name suggests, this display mode is a higher resolution than the Lores mode (but not the highest resolution possible). In Hires mode the Amiga still only displays 256 lines from top to bottom, but each line now consists of 640 dots from left to right.

Unfortunately, in Hires mode the Amiga 500 can only display a maximum of 16 true colours, but the Amiga 1200 can still display its full quote of 256 true colours.

Let's kick off the programming by opening a standard screen in Lores and then Hires:

```
WbStartup
```

;We are still using the WB system.

```
Screen 0,2
```

;Here is our screen.

```
MouseWait
```

;Wait for a mouse press.

```
CloseScreen 0
```

;Close our screen in a system friendly manner.

```
End
```

That's it! Not much to opening a simple screen, is there!

If you have been reading your manual, you would have realised that to open a simple Lores screen which has dimensions of 320*256 pixels, you only need to use the shortened version of the 'Screen' command.

This version assumes that you want Lores, so all you need to do is to tell it how many bitplanes you want (the number of bitplanes dictates how many colours can be used by using the following maths:

$2^{\text{Bitplanes}} = \text{Number of colours}$, ie. $2^2 \text{ bitplanes} = 1*2*2 = 4$). The first value represents the screens id number.

Let's do the Blitz

PART 2

Following in the steps of the first tutorial, Michael Milne takes you through opening your own screen and creating your own menus!

Well this is all fine for a Lores screen but a Hires screen such as the WB screen requires some extra thought. We need to use the extended form of 'Screen', so replace the previous 'Screen' command with the following:

```
Screen 0,0,0,640,256,2,$8000,"My Screen",1,2
```

If you check your manual you can see that the first two values after the screen id number is the X,Y position. These values are relative to the top left-hand corner of the screen (ie. 0,0 is positioned in the top left-hand corner).

The next two values are the width and height of the screen in pixels as explained above. After that follows the number of bitplanes and then the screenmode value.

This value is related to a chart in your Blitz User Magazine No.1 on page eight, which shows that a value of \$8000 gives us

a Hires display. After that follows the name of our screen and then the drawing pen number and background pen number which represent the two colours used to draw the screens display.

Try experimenting by opening some screens of different sizes and resolutions with varying number of bitplanes. Remember:

Amiga 500 = max 32 cols = 5 bitplanes max
Amiga 1200 = max 256 cols = 8 bitplanes max

Now lets go one step further and add a picture. This example relies on you having a picture somewhere which you can use. Please make sure that it is either a Hires picture or a Lores picture only:

```
WbStartup  
MaxLen fi$=64
```

;Max length for filename.

```
MaxLen pa$=128
```

;Max length for filepath.

```
Screen 0,2
```

;Open a basic screen.

```
Repeat
```

;Start of main loop.

```
fi$=FileRequest$("Choose a picture!",pa$,fi$)
```

;Ask for a picture.

```
If Exists(fi$) Then ILBInfo fi$ Else End
```

;If it exists then analyze it.

```
CloseScreen 0
```

;Close old screen.

```
Screen  
0,0,0,ILBWidth,ILBHeight,ILBDepth,ILBViewMode,"  
",1,2  
New screen  
LoadScreen 0,fi$,0
```

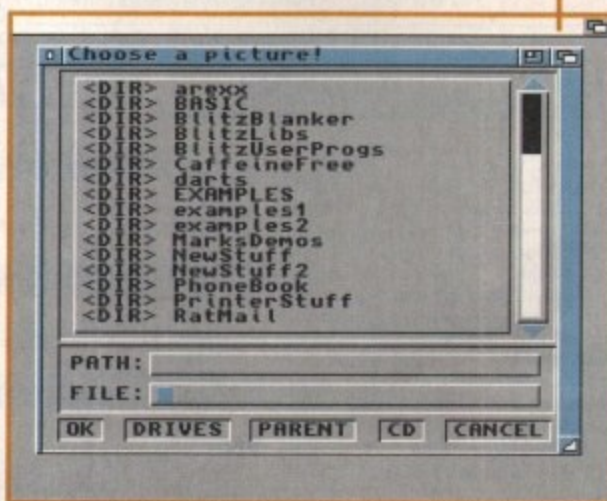
;Load picture.

```
ShowPalette 0
```

;Show palette.

```
MouseWait
```

;Wait for mouse button.



Wow! An IFF picture requester. Select a picture and load it up

```
Forever
```

```
;Repeat forever.
```

In this example all we have done is set up a few variables, opened a default screen, repeatedly asked for a picture to show and then wait for the mouse button before looping around again.

Notice that we use the ILBM commands to find out the picture size, depth and view-mode

If you have the latest copy of Blitz 2 featured on Blitz User Magazine No. 6 then you can change the line:

```
If Exists(f$) Then ILBMInfo f$ Else End
```

to:

```
If Exists(f$)=False Then End Else If ILBMInfo f$=False Then End
```

This is because you have the new version of ILBMInfo which returns True as it is a picture. If you haven't got the new version then see the subscriptions box on how to get it!

All we need to do is add a few menu options and we'll have a good picture displayer. But, first a few basics about menus: ● Each menu is split into sections, a title, an option and a sub-option.

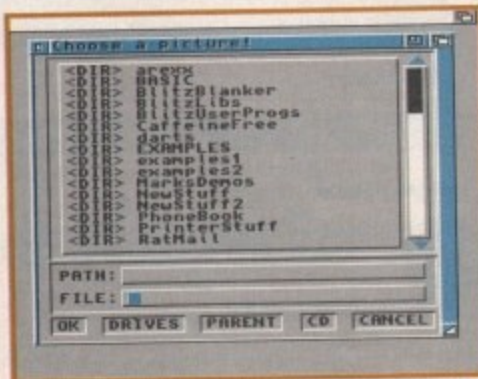
The title is as the name suggests, the name of a particular menu. In each menu is a selection of options which the user can choose from and some options also act as titles to sub-options. This is what a typical menu structure could look like:

Menu	Title
Option 1 -	Sub-option 1
Option 2 -	Sub-option 2
Option 3	

● Each set of titles, options and sub-options in Blitz 2 are assigned a unique id number just like screens and windows. This makes the grouping of menus as easy as pie.

Setting up a menu is just like defining a variable in Blitz 2. There are three commands: MenuTitle, MenuItem and SubItem.

Each of these allow the declaring of each part of a menu and gives you the power to group these with the unique menu id numbers, thus allowing you to create several sets of menus for different parts of your program. One thing to remember about menus is that they need to be attached to a win-



Now we can attach a screen and add some menus to it. From here we can also load up a picture using a file requester

dow because of the way the workbench sets them up (Sorry, that's the way it is).

But don't despair, we can set up a dummy window, which can't be seen by the user. All we do is define our menu, set up our screen as before but add a window without a title and without borders. This makes for an invisible window!

So let's get on with the last part of this issues tutorial:

```
WbStartup
MaxLen pa$=160
```

```
;Our file vars:
```

```
MaxLen fi$=64
ev.l=0
```

```
;A long variable to get the user input.
```

```
MenuTitle 0,0,"Project"
```

```
;The menu titled "Project."
```

```
MenuItem 0,0,0,0,"Load a picture ", "L"
```

```
;The menu item "Load."
```

```
MenuItem 0,0,0,1,"Quit", "Q"
```

```
;The menu item "Quit."
```

```
Screen 0,2,"Use menus"
```

```
;Our default screen.
```

```
Window 0,0,10,320,246,$800,"",1,2
```

```
;Our invisible window for the menus.
```

```
Activate 0
```

```
;Activate our window.
```

```
SetMenu 0
```

```
;Add our menu.
```

```
Repeat
```

```
;Start of our loop.
```

```
ev.l=WaitEvent
```

```
;Wait for user interaction.
```

```
If ev=$100
```

```
;Has the user used a menu?
```

```
If MenuHit=0
```

```
;Is it our menu?
```

```
If ItemHit=0
```

```
;Is it the load option?
```

```
fi$=FileRequest$("Choose a picture",pa$,fi$)
```

```
;Ask for a pic.
```

```
If Exists(fi$) Then ILBMInfo fi$ Else End
```

```
;Get IFF info.
```

```
CloseWindow 0
```



If you need any help regarding the syntax of a certain command, simply place the cursor over it and press the Help key

```
;Close old window.
```

```
CloseScreen 0
```

```
;Close old screen.
```

```
Screen
0,0,0,ILBMWidth,ILBMHeight,ILBMDepth,ILBMViewMode,
Use Menu$,1,2
Window 0,0,10,ILBMWidth,ILBMHeight-10,$800,"",1,2
LoadScreen 0,fi$,0
```

```
;Load the picture and palette.
```

```
ShowPalette 0
```

```
;Show palette.
```

```
Activate 0
```

```
;Activate window for menu.
```

```
SetMenu 0
```

```
;Add menu.
```

```
Endif
If ItemHit=1
```

```
;User wishes to Quit.
```

```
CloseWindow 0
```

```
;Close window.
```

```
CloseScreen 0
```

```
;Close screen.
```

```
End
```

```
;Bye Bye.
```

```
Endif
Endif
Endif
Forever
```

Try loading a few pictures into this program. See how it loads the picture onto the screen when it executes the LoadScreen command but doesn't show the palette until the ShowPalette command.

Watching how the program executes is a good way to finding out the right order to write a series of commands to achieve perfection.

Well that's it for this month. In next month's issue we'll jump into the world of gadgets as well as looking deeper into the screen, window, events and menus. So until next time, keep practising.

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RG6 1EG

➔ **S**erious Amiga animators already have access to some fantastic tools, including world-class 3D programs, single-frame controllers, direct-to-disk video boards and some of the best real-time paint and animation software around.

But, when your video masterpiece is finished, what about its soundtrack? You could utilise the excellent Sunrize 16-bit sampling card, but that comes at a professional price which is a bit expensive if you just want to enhance your 24-bit remake of BladeRunner with a friend's dark jungle MOD files, or add some sound samples direct from your Amiga.

Digital Sound Track (DST), by Merlin's Software, is an American program which claims to answer the video animator's prayers, allowing IFF samples, SoundTracker, NoiseTracker and ProTracker MOD files to be synchronized to your timecode-locked SMPTE video.

CONTROL

DST even allows a Picture-in-Picture (PiP) preview video display when GVP's IV-24 or an OpalVision video module is used.

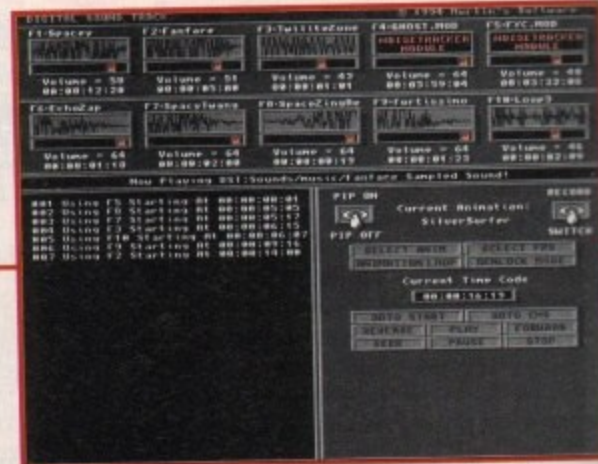
DST works with a wide range of professional VTRs and single frame controllers – most of which aren't easily available outside the USA so I won't list them here – though strangely DST can't control the popular Nucleus Personal SFC.

Fortunately, support for DPS's Personal Animation Recorder has just been added, so I tested DST with a PAR card hooked up to the video input of an IV-24 – a system which alone would set you back over £5000. It seems you need to be pretty serious about your animation to be able to make full use of DST.

For all its claimed power, I was surprised to find that DST's manual is a skinny 12-page A5 affair which doesn't mention the PAR at all. Instead, the manual concentrates on the use of single frame controllers.

The actual PAR information is contained in a ReadMe file which also covers DST's Script Recording feature. I found the

Music can add meaning to a video. Gary Whitely pumps up the volume and puts soundtracks to his animations



DST provides one main screen, with ten sound 'slots', control buttons and a built-in window for script preparation or, with the right setup, Picture-in-Picture (PiP) viewing.

In time to



ReadMe more helpful than the manual, though I guess the PAR info will eventually find its way into the documentation proper.

Installing DST is a hit and miss affair, as it uses its own custom installer instead of the standard Commodore one. While installing the PAR version of the software, it also decided to install the OpalVision ARexx programs because it detected the OpalVision.library on my hard disk.

Giving the user full control over the installation would be a better option to avoid such problems. Eventually, after some manual installation, I got DST up and running, though I can't say it was as straightforward as it might have been.

With the hardware and software installed, getting it all to work seamlessly together

proved something of a challenge. On start-up, DST displayed its single control screen with a quarter-sized window in the lower left corner, ready for inserting an IV-24 PiP to monitor your animations.

After relocating DST's ARexx scripts, configuring the IV-24 and running the IVPI software, DST's PiP on/off switch eventually produced an NTSC-sized window showing the PAR's output.

Experimentation, reference to the IV-24 manual and some editing of the supplied ARexx scripts produced a better display, though PAL users shouldn't have to do all this extra work just to get a program working properly.

SOUND

Finally, I could start adding sound to my animations. With the PAR running I was able to select an animation and control it from the DST screen, which wasn't always easy as DST's control buttons are small and sometimes awkward to use, while the animation time display is tiny and flickers during animation playback.

Switching the IV-24 display to video mode (essential when recording to tape) made the time counter virtually unreadable. If DST emulated the PAR's VCR-like control panel and large-digit display, this would be a great improvement.

Unlike the PAR, DST will only let you play an animation, go to a particular frame (selected by time), or jog forwards or backwards a frame at a time – a rather unstable procedure which sometimes locks up the program for a short time if the jog button is used too enthusiastically.

According to the manual, clicking on other parts of the screen should force the jogging to stop, but it didn't seem to work for me. The animation loop button also seems unreliable, sometimes causing only

Scripts are written using DST's script recording facility, which is easy to use but lacks the power to produce a totally satisfactory result.

By selecting "Begin Script Recording" a frame can be selected from an animation and a sound tagged to it. Each sound has to be added in the order that it will be played, or an error message appears.

When the script recording is finished you then can go into "record" or "test script" mode, and all the sounds will play back in time with the animation – at least that's the theory.

This is where a major problem arises. There appears to be no synchronisation lock between the PAR's frame counter and DST's timecode clock, which means that scripted sounds may well play back in completely the wrong place.

DST has a "Change Time Delay" option to allow manual tuning to the PAR's constant playback speed but, as this requires frequent resets, editing the soundtrack to any degree of accuracy quickly becomes an exercise in total frustration.

If you need to edit your script, to offset the unreliable synchronisation for example, the only way to do it is with an external text editor or wordprocessor. By editing scripts you can

build up some fairly complex soundtracks – including setting the number of loops over which a sample will repeat, though the cryptic script format is only vaguely explained in the ReadMe file, making editing a tough job.

Setting the time at which a sound plays back seems rather arbitrary, since the numbers in the script bear no relation to those displayed on the DST screen.

I found the only practical way to insert a sound in a script was to begin a new script, indicate where I wanted a sound to play, save the script, then insert this new file into my main script using a text editor.

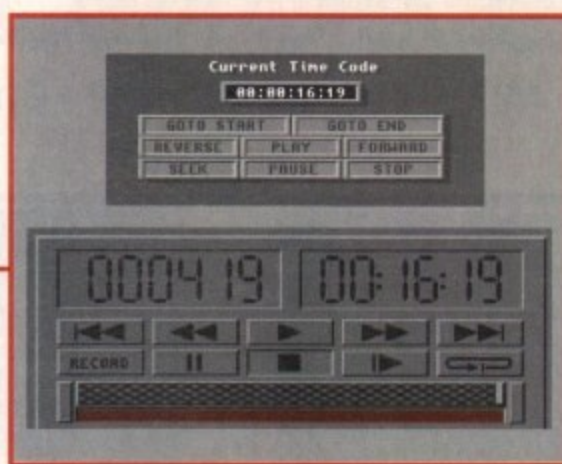
Once I got used to this method of working I began to enjoy my digital dubbing, but soon found the playback sync of my animations knocked out of kilter by DST's flaky synchronisation method.

Making a small change to a script would often throw everything else out. This, plus the fact that sounds would not always play back on the correct channel, soon had me reaching for the paracetamol.

Alas not an ideal situation, but as it stands there's no real alternative.



When GVP's IV-24 (or the upcoming OpalVision video module) is used, a PIP preview of the incoming animation can be displayed on DST's screen



Compared to the PAR's own controls (lower illustration), DST's controls (upper illustration) are small and awkward and would be much better if they copied the PAR controls

What's missing

Since I couldn't get access to a suitable single Frame controller and VTR, I was unable to test how well DST works in this mode. It would be very useful though if DST could control newer VCRs which have RS-232 control – such as Sony's UVW Betacam series and Panasonic's pro S-VHS machines – which should be easy to implement.

If this control was available in conjunction with the PAR, then DST could become the control centre of a digital edit suite. However, it seems that the programmers already have their work cut out just making DST work properly with the PAR, never mind adding more features to the program.

Note that DST doesn't control Amiga animations, so if you thought it would be a useful way of blending your animation with samples and MODS I'm afraid you'll be disappointed. Try Scala MM300 or MainActor Pro instead.

the music

the first few frames of an animation to play back. The FPS button should allow you to change the playback speed of an animation incrementally for slow-motion effects, but I could only get it to play at normal speed.

Even if it did work, it offers only 5, 10 and 15 frames-per-second speeds, instead of the much wider range available through the PAR software itself.

Fortunately, the PAR's keyboard controls are emulated and seem to work rather better than DST's on-screen buttons, although slow-motion control is still not included.

PAR control via DST is certainly not as reliable as it ought to be, and sometimes I had to restart DST to get the PAR control to work successfully.

DST provides four disks of PD samples and MODs, and some are of surprisingly good quality. Of course you can also use your own samples and MOD files, although most surprisingly DST doesn't support OctaMED MODs!

LOADING

Loading sound files is fairly straightforward. Clicking on an empty sound box (each is also assigned to a function key) brings up a standard file requester, though sadly there's no preview option, so I had to resort to my directory utility (Directory Opus) to audition any likely samples.

Each sample or MOD file can be played back by either clicking on its box or by pressing its associated function key. Once loaded, the ten sound slots available are supposedly arranged in alternating stereo pairs.

These assignments aren't indicated on screen, even though they are mentioned several times in the manual.

Curiously, I found that loaded sounds did not always play on their assigned channels,

This is what you see if you want to edit a DST script in a text editor. Like me, you'll probably be flummoxed by its cryptic nature. It might as well be in Hex code.



particularly after playing a stereo MOD file first, producing some confusion about which sounds could be successfully played together.

DST can play up to four samples simultaneously, or one stereo MOD file, providing a useful digital mix'n'match capability.

Once the sounds are loaded they can be added to an animation either by playing them back manually or by using DST's rather rudimentary scripting facility.

When using a single frame controller a VTR can be set to insert an audio track at a particular timecode reading, with DST

playing back the appropriate sound on cue, but with the PAR you have to hook up both the PAR's video output and the Amiga's audio output to a VTR.

However, this method offers no control over the VTR, so everything must be recorded in a single pass, which means you either have to trigger the sounds manually or write yourself a control script.

In conjunction with the PAR, DST could be a very handy animation utility for adding spot effects and music, but until the synchronisation problems are sorted out it will only cause aggravation during critical work.

Since DST's PAR support is quite recent I hope we'll soon see a version that drives the PAR properly and provides better editing functions. Until then, save your pennies towards a more professional solution.

Jargon buster

- **SMPTE:** As all Frank Zappa fans know, SMPTE stands for Society of Motion Picture and Television Engineers – the body which sets the guidelines for technical aspects of television in the USA. The European Broadcasting Union (EBU) is their European equivalent. SMPTE is commonly (if mistakenly) used to refer to the timecode signal employed to sync video and audio systems together.
- **MOD:** A compact file format for storing music and its associated sound samples which started life on the Amiga, but is now also available to PC users via their add-on sound cards.

SYSTEM ESSENTIALS

RED = Essential BLACK = Recommended

4 Mb	6 Mb
RAM	RAM
2.0+ Workbench	Hard drive Text editor

The bottom line

Product: Digital Sound Track
 Supplier: Merlin's Software
 Publisher: Visual Inspirations, 809 West Hollywood, Tampa, Florida 33604, USA.
 Phone: 0101 813 935 6410
 Price: \$99.95

Ease of use	6
Implementation	4
Value For Money	5
Overall	5

They do

From day one there has been an enormous amount of demand for an expansion port that would give the CD32 the characteristics of an A1200.

Paravision, realising this fact, were first to announce the development of such a unit. The SX-1, as it was later named, has been eagerly awaited ever since.

Contrary to popular belief, the CD32 is not an A1200 with a CD-ROM drive attached. Therefore, providing the CD32 with the sort of expansion capabilities found on the A1200 is not totally straight forward.

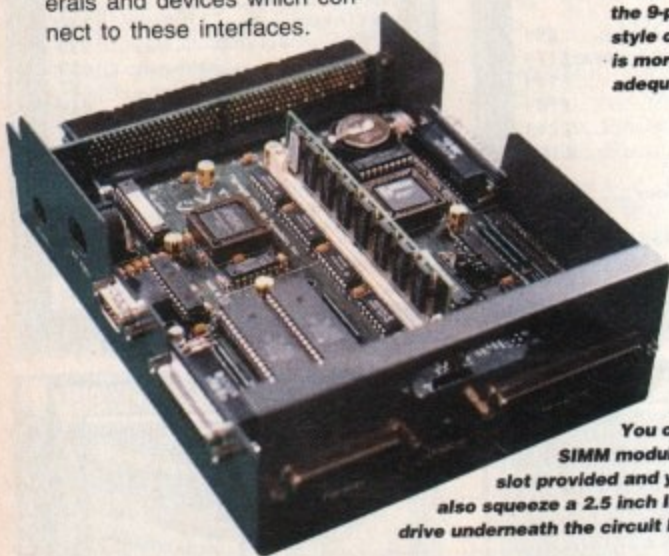
While it would appear that the CD32's designers have allowed for as much communication as possible through the console expansion port, all the outgoing and incoming signals need to be translated and manipulated before being of any use, to man or machine.

This has meant that the designers of the SX-1 have had to develop circuitry to mimic that which interfaces the guts of the Amiga with the outside world.

Paravision's SX-1 is a "Plug in and Go" expansion. Unless you are installing a hard drive there is no messing about with installation software.

Once connected you can hook up to a suitable monitor, an A1200-compatible floppy drive, a printer, a modem or even another computer. In fact you can fit almost anything that can be attached to an A1200.

The parallel, floppy and RGB connectors are standard Amiga ports and will work fine with the vast majority of existing Amiga peripherals and devices which connect to these interfaces.



You can fit a SIMM module in the slot provided and you can also squeeze a 2.5 inch IDE hard drive underneath the circuit board



While the serial port is not the standard Amiga DB25 connector, the 9-pin IBM AT style connector is more than adequate

You may also fit an external IDE drive, but it must have its own power supply. While the serial port is not the standard Amiga DB25 connector, the 9-pin IBM AT style connector is more than adequate

Your first stumbling block will be the serial port. Rather than use the more expensive and hard-to-come-by 25-pin D connectors, Paravision have opted for the more common IBM AT style 9-pin D connector.

Before you get too concerned, the Amiga's RS232 serial port only uses nine of the 25 pins and 9 to 25-pin adapters are quite easy to come by. Around the outside of the unit you will also find a disable switch, a hard drive connector, an AT keyboard socket and an audio input.

DISABLING

For the sake of compatibility, with some CD32 software titles a disable switch has been added. This disables the hard drive, floppy drive, serial port and parallel port, removing the need to disconnect the SX-1 should you come across any incompatibilities.

It is possible to connect an external IDE hard drive, with its own power source, to the hard drive connector at the rear of the machine. The only problem I found with this was that the Appendix concerning the external hard drive, which was supposed to detail the pin configurations, was missing.

This should be resolved but if it is important to you then check with your supplier before

purchasing. The CD32's Aux port will accept an A4000 keyboard, or even an A2000 one with the correct adapter, but there is one slight snag - they are expensive.

Amiga keyboards, unless picked up second hand, can cost as much as £90. The inclusion of an IBM AT-101 keyboard adapter should prove a real godsend, because you can pick up a suitable keyboard for as little as £25.

IBM AT-101 keyboards are not at all compatible with the Amiga's keyboard, but the SX-1 has an inbuilt translator that makes the PC keyboard act like an Amiga one.

Not all PC keyboards are AT-101 compatible, such as the XT keyboards, so you will need to exercise a little caution when buying one.

You may also find that your AT-101 keyboard lacks a right ALT key. Should this be the case, there is a jumper setting on the SX-1's motherboard that allows the right CTRL button to be used instead.

As well as being able to mix both CD and Amiga audio, you will find that the SX-1 will allow you to mix a third audio stream, via the 6-pin Mini-Din socket.

If you are a closet Karaoke nut then this feature may be of interest to you. For those that want a bit more umph, you can remove the unit's cover and add a 2.5 inch IDE hard drive or some extra memory.

The IDE drive can be secured to the underside of the circuit board and the cable attached to the standard 44-pin (2mm) connector. The single 72-pin SIMM socket will accept either a 1, 2, 4 or 8 megabyte SIMM module (rated at 80ns or faster).

Jumper settings allow you to configure memory size accordingly but you will experience certain limitations if you have an FMV card fitted. Due to the nature of the FMV configuration you will only be able to use 1, 2 or

In comparison

There is little to compare the SX-1 with. Several three-line serial links have been produced for the CD32 and these have enabled Amiga owners (and no doubt a few PC users) to transfer files from the CD32 onto their Amiga.

Such add-ons, while functional, are not exactly breathtakingly fast and offer nothing but a simple serial connection. Some people seem to think that the SX-1 will turn their CD32 into an A1200.

This is not the case. It gives your CD32 many of the A1200's characteristics but fails to achieve the impossible, which is turn it into an A1200. Think of it as an additional model in the Amiga computer range and you

should not be disappointed.

Any A1200-compatible software should work fine on the CD32 fitted with the SX-1. I certainly could not find any problems on this front, despite constant attempts to catch it out. Even programs written in Amos worked fine. Amos is packed with hardware-hitting routines and short cuts - the fact that it worked on the CD32 would suggest that many other OS unfriendly programs should run.

The AT-101 keyboard adapter was, I felt sure, bound to throw a few wobbles but it happily handled all that I threw at it. The inclusion of this option was an incredibly shrewd move and Paravision should be applauded for it.

ROM ROM

CD32 owners can now turn their consoles into a CD-ROM-equipped Amiga. Andrew Deeley puts the first major CD32 add-on through a thorough test.

megabyte SIMM's. Incidentally, if you do own an FMV module you will find that the SX-1 provides full FMV passthrough, allowing the FMV/Mpeg board to be used with the SX-1.

Last but not least is the onboard real-time clock. This is an AmigaDos-compatible clock which is powered by a long life CR2032 replaceable lithium battery. Something that many A1200 do not possess.

So does all this turn your CD32 into a usable Amiga computer? Well effectively it does. To prove this I spent hours down loading files from CD-ROM discs onto floppies, running floppy-based software, printing off doc files, playing the odd game and parmeting it up to an A4000 in order to chuck files all over the place.

SUPPORT

I even hooked up a modem and used the CD32 to log onto a couple of boards. What you cannot do is add a faster processor, an FPU chip or a SCSI controller. Whether it is possible to provide support for these remains to be seen, but no announcements have been made as yet.

If you are to experience any hardware compatibility problems with the SX-1 then you will probably find the cause to be power related. The CD32's power supply is a bit whimpy in the amperage department.

It works perfectly well with the CD32 but may not like too many peripherals drawing from it. Much depends on how greedy your hardware is, but you will find that you should be able to connect both a 2.5 inch hard drive



Paravision's SX-1

The addition of an FMU card, a digitizer or sampler, which draw their power from the CD32, could be asking too much, causing the machine to crash.

and an 3.5 inch external floppy drive (despite the instructions advising that you will only be able to use one or the other).

The addition of an FMV card, a digitizer or sampler, which draw their power from the CD32, could be asking too much, causing the machine to crash.

I actually connected an external floppy, along with the Vidi digitizer and the separate Vidi RGB splitter. Older Vidi models are notoriously greedy when it comes to power consumption (newer ones are much better) and this combination proved too much for the CD32's PSU

Instructions are rather brief and do not contain any diagrams. While this may not be necessary for most of the features, diagrams do tend to break up the text making it more digestible.

The placing of the RGB socket was also a little odd. I found that the adapter on my CBM 1960's monitor lead sat tightly on top of the CD32's power plug. It did not prevent it from working but it was still slightly annoying.

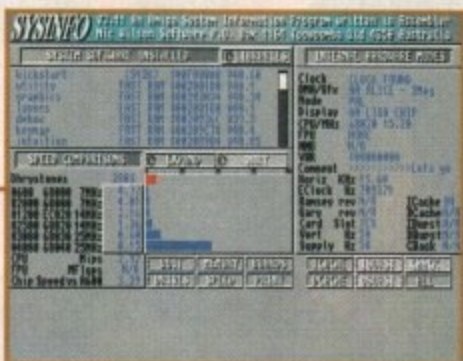
Actually the whole design was a little disappointing. A much neater solution would have been to have a unit that sat underneath the CD32, with one long row of connectors along the back.



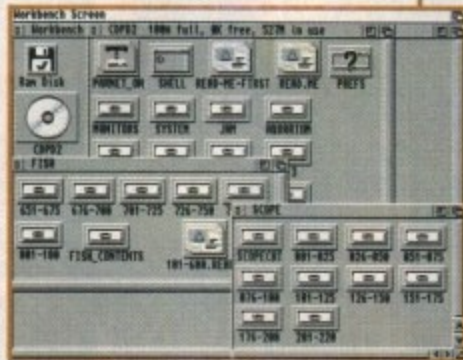
Running floppy-based games is no problem. This one was written in AMOS and proved that the CD32/SX-1 could handle hardware-hitting software



All manner of clipart and picture files are there for the taking



Sysinfo checks out the performance of the CD32 and SX-1 combination. The addition of a Fast RAM SIMM module increases performance considerably



Invest in a few CD-ROM discs and you will have access to almost every possible piece of software that has been released into the Public Domain.

The bottom line

Product: SX-1
Supplier: Indi, Calculus and all good dealers
Price: £195.55

- Ease of use _____ 9
- Implementation _____ 7
- Value for money _____ 9
- Overall _____ 9

If you own an A4000 keyboard you can plug it straight into the CD32's AUX port. Falling this, the SX-1 will take certain PC keyboards

Playing with fire

Ine of the biggest dilemmas for any animator is how to make their creations believable. In many cases the obvious solution is to incorporate a sequence of stills from the real-world as part of the overall animation.

As a result, things like TV screens and windows can come to life with your favourite soap and scenery. Seemingly the perfect solution. However, what if you need a little more than a simple sequence mapped onto a flat plain.

For example how do you add explosions to blazing ships or flickering flames to a candle – without spending thousands on expensive pyrotechnics and studio facilities.

The answer. The pyromania CD-ROM from VCE inc. Thanks to this California outfit, the nightmare of making a believable big bang is finally over.

Although many of the more advanced Amiga animation systems attempt to emulate explosions and other pyrotechnics, they've never really been on a par with the real thing.

As a result, this new CD-ROM will be a god-send for anyone looking for the kind of FX usually exclusive to big Hollywood productions.

Over the last 16 years VCE, or Visual Concept Engineering, has been a leading light – pun intended – in the production of visual effects for films such as Return of the Jedi, Robocop, Beetlejuice, Addams Family and Cliffhanger.

Fortunately they've now decided to lavish their wealth of experience on a new CD-ROM which boasts 1182 individual PICT files, all scanned from 35mm film stock at a resolution of 640 x 480 at 72 DPI.

Not surprisingly, the aforementioned files are split into a variety of events including eight explosions, five fire wipes, five flame sequences and a single film burn sequence.

Consequently, pretty much every pyrotechnic eventuality can be catered for by using individual sequences or compositing a series of events together. Now as the videographers will

Fire wipes

Although the vast majority of the CD is dedicated to explosions and other spectacular pyrotechnics, there's also a series of dedicated wipes that have been pre-processed using an alpha channel, thereby enabling the user to apply flaming transitions between static images.

The end result is a wall or circle of flame which glides across the screen burning away the current image, leaving the replacement in its wake. Without seeing the effect in action it's difficult to appreciate how impressive it actually is. But rest assured, even the most dramatic Scala transition looks weak in comparison.

Paul Austin sets his Amiga ablaze with the CD that every animator must have in their collection

be well aware, 640 x 480 is a little short on full video resolution. However, thanks to the excellent quality of the images, scaling up to full video size doesn't really present a problem.

However, in the vast majority of cases the actual effect will only occupy a relatively small area on the screen. As a result, for many of the applications the files may in fact need scaling down – in order to accommodate system requirements.

As you've probably guessed via the reference to the PICT file format, the actual CD is primarily aimed at the PC and Macintosh market. Thanks to the use of a standard ISO9660 CD format though, the files are equally at home on the Amiga as they are on the PC or Mac.

I must admit there is one minor problem, this being the lack of an animated preview of the various sequences.

COMPILING

On both the Mac and PC, small anim previews are provided for each event. However, if you're willing to invest a little time compiling your own it isn't exactly a massive problem.

As you can see from the composite space ship explosion, all the Pyromania images have been shot on a black background to aid composition. It must be stressed that the images have not been pre-processed.

In other words, the black areas of the screen are not restricted to colour zero. As a result it's left up to the user to process the images to suit their particular needs.

Basically, some form of image processing is essential, with either ADPro or ImageFX being the obvious choice for both colour correct and composition of the effects into your animations.

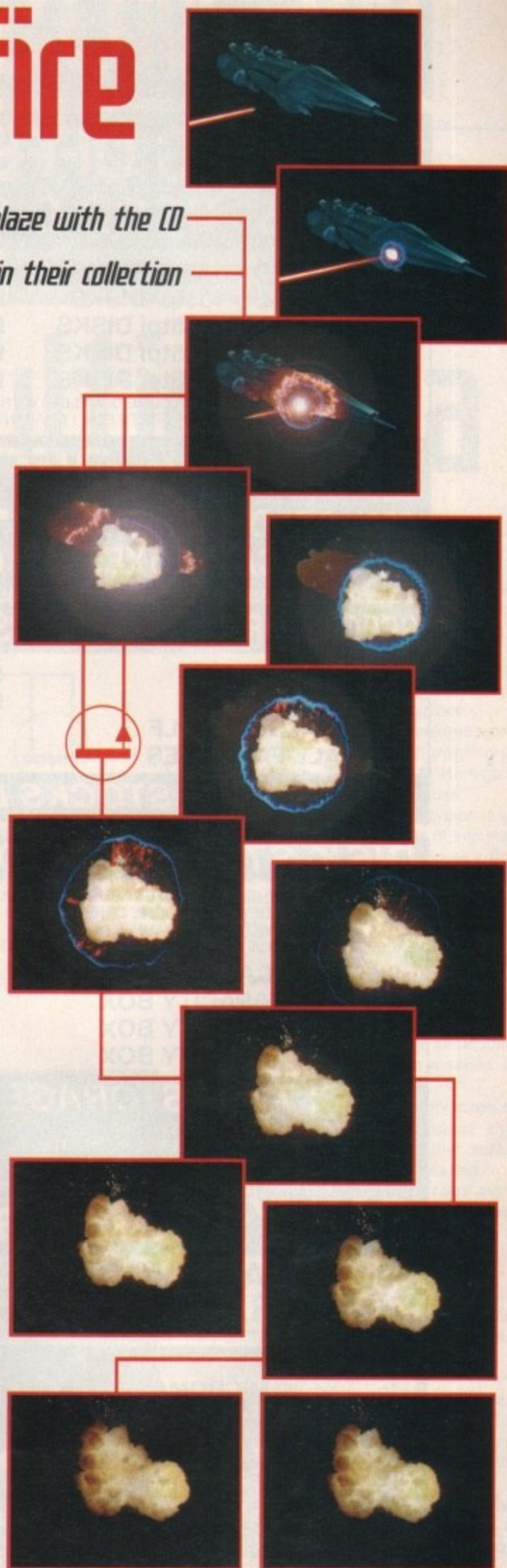
If you're serious about your animation the CD is an absolute must. To my knowledge there's no other product available that can match the explosive power of this impressive product.

Be warned though, there's still a fair amount of work to do in your favourite image processor if you want the very best from the images on offer. A dream come true for serious animators.



The bottom line

Product: Pyromania
 Supplier: VCE inc
 Price: \$199
 Tel: 0101 818 367 9187



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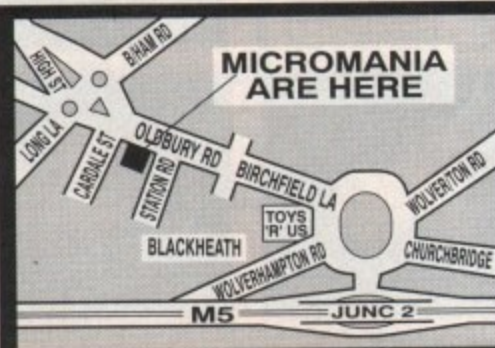
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You're tired, hungry, weather beaten and ever so slightly lost. The tourist information office sits in a glow of warm sunlight as you make your way towards it. Entering, you are confronted by row upon row of pamphlets, maps and advertising booklets.

A friendly smile beams at you from behind the counter and asks if it can help you. Several minutes later, you leave the premises with half a dozen maps, five hotel brochures and a clump of local attractions' pamphlets after grabbing blindly at the shelves. For some strange reason, you don't feel any the wiser.

Imagine this in a foreign country and the already hassled individual turns in to a panic stricken holiday maker with two kids and wife waiting in the car, all on the mutinous verge of Sealinking it back home sharpish.

In North Wales, the tourist board has decided to take an important step closer to customer satisfaction by introducing the country's first multimedia, computer-based information bureau to help visitors with accommodation, attractions and many other slices of the locale's culture.

ATTRACTIONS

With the simple press of a button to highlight the area you wish to explore, the visitor and locals alike are able to obtain an overview of a particular region's attractions at the time. Photographs and the soon-to-be installed full-motion video aid the holidaymaker in choosing what they will do with their well-earned vacation.

The idea was thought up by Peter Simunovic, a Croatian who moved to Britain eight years ago. While working for the Clwyd County Council, Peter was already heavily involved with Commodore machines having owned a Vic-20, C64 and 500.

He saw the opportunity to use the Amiga as the perfect platform for the continually updated delivery of valuable information for tourists. "I would like to see Commodore growing out of the game situation and getting more into corporate affairs because the

Grass, sheep and multimedia



Photographs and details on attractions and other features are on offer with the press of a button



Sick of those holiday blues? Let the Amiga take you by the hand. Adam Phillips reports.



From left to right - Bill Owen, Peter Simunovic and Commodore's marketing manager, Jonathan Anderson

machine has so much potential. Businesses don't know about the Amiga - they have been surprised by what the machine can do."

After putting together a proposal, he managed to convince the County Council to give a development grant. The demonstrations began and, after impressing the Welsh Office, Peter says that he "got a decision almost instantly."

The impressed investors awarded a full grant of £15,000 for the project to be developed and installed in the Denbigh library.

In stepped Ramiga International, headed by managing director Bill Owen, to help bring the brainchild to life. By using an Amiga 4000/040 combined with the Personal Paint Animator that captures individual frames in real time, the Piccolo 24-bit display board, an Mpeg board for handling

full motion video, SCSI2 board and a Philips compact disc cutter for creating custom CDs, the basic tools for creating the interactive tourist guide were in place.

While some of the above features were not implemented at the official unveiling at Denbigh library, the results of Ramiga's labour are attractive and easy to use.

Implementing a Scala-based system and a hard drive with over 62 megs of information, the user simply has to press the colour-coded buttons to the side of the screen to choose their desired topic.

TOPICS

The full rundown includes attractions, eating out, events, general info and highly useful emergency numbers. By pressing on "places to stay", you'll be prompted to select what board rating you can afford and, once done, be presented with a series of hotels in your price bracket.

Choose one and, along with information on location, fees and other details, the actual rooms, reception and other areas may be viewed with accompanying text.

At present, only two of North Wales' eight counties have been entered - Clwyd and Gwynedd - but the intention is to have a fully comprehensive breakdown of the entire country.

While the system is 4000-based at the moment, the aim is to produce seven terminals connected to each other via modems for ease of updates.

Instead of the 4000, CD32's at each point using the CD32x expansion unit from Index Information - the company responsible for the recent London Transport Museum's facelift - and a hard drive will run the whole system.

Coupled with FMV, the Wales Tourist Board can hopefully look forward to a rewarding pilot run.



Touch the colour-coded buttons to operate the system



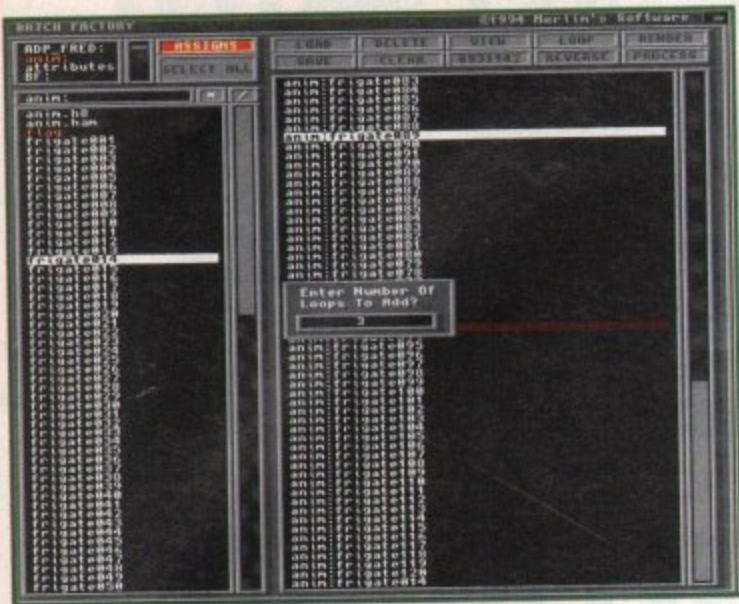
There are big plans for the future. Ramiga and Peter Simunovic are planning a visit to Orlando in America to talk to a chain of hotels about the possible inclusion of the system in their complexes.

The technology would remain the same: "The concept is the same from tourism to large hospitals or creating an information system for business. Everything is the same, only the data changes," commented Simunovic.

Ultimately, Peter has high hopes for Commodore's machines: "We want to install a CD32 in every hotel room and can deliver an entertainment box in one.

"On holiday, your home is your bedroom and you have a single machine that plays music, video, games and information. There is still a long way to go though."

And that's another article too...



Creating loops is a snip with the dedicated loop button



The world's slowest file requester, maybe, but there are plenty of ADPro scripts

The trouble with ARexx and the majority of programs which support it is that hardly anyone can be bothered to learn enough ARexx to write their own scripts and macros.

Sorry, but there it is. ARexx is about as interesting as a bus timetable and the programmers, thinking they had provided an easy enough language for the average user, were forced to go away and make it even easier.

Since ADPro was blessed with the superb ProControl and ProPage got its Genies, ARexx macros have gradually become more common, but there has never been an all-round macro control centre. Batch Factory hopes to be the answer by supporting as many of the best applications as possible.

In a package containing 304 scripts covering 11 applications, the macro-starved user will find an ARexx elastoplast for many common or garden ailments.

SCRIPTS

ADPro users can choose from 68 scripts, most of which can be used on single or multiple files, ProPage users can add to their already long list of Genies, and even good old AmigaDOS gets ten scripts of its own.

When loaded, Batch Factory has the appearance of a directory manager. Two large windows are used to display the current directory and the files selected for processing, and only a single row of buttons breaks up what is an otherwise uninspiring screen.

Minimalism is carried over to the menus, which offer only a few options and can leave you wondering where the meat and veg is located.

Choose to select a script, however, and the poor impression quickly changes. A file requester, slower than the average snail but still usable, offers access to an Aladdin's cave of macros of all shapes and sizes.

The most obvious use for a program such as this is for work with ADPro, so that's where I started.

The 68 scripts dedicated to ADPro cover

Backstage

Stevie Kennedy automates just about everything in sight with the latest helping hand, Batch Factory

Support

Below is a list of the packages supported by Batch Factory and the number of scripts supplied for each. If PageStream 3.0 is notable by its absence, don't worry.

Batch Factory will support it through an update as soon as the DTP heavyweight appears. As PS3 has already enjoyed the gestation period of an elephant, we can only hope it pops out of SoftLogik's incubators soon.

ADPro.....	68 scripts
AmigaDOS.....	10 scripts
Image FX.....	82 scripts
Cygnus Ed.....	2 scripts
Final Writer.....	4 scripts
Image Master RT.....	75 scripts
Morph Plus.....	6 scripts
Opal Paint.....	36 scripts
P.A.R.....	15 scripts
ProPage.....	6 scripts

the usual sort of tasks, such as rendering animations from a sequence of images, plus a variety of common image processing tasks.

Unlike ProControl, ADPro's dedicated batch front-end, Batch Factory cannot create a script as you go along by choosing loaders, operators, and savers, but the

program has a multiple script facility so that images can be put through several processes one after the other, which is almost as good.

Covering all the most popular operators, such as twirl, rotate, scale, and so on, the macro list is comprehensive enough to meet most requirements, though it still can't touch ProControl or Mutiframe as an ADPro add-on.

The bad news is that if you take a look at the support panel you'll notice that some applications are decidedly better served than others.

Batch Factory's macros are heavily biased towards the image processors and Opal Paint, and while these packages are treated to dozens of useful scripts, the others can look a little sad, particularly Final Writer with its paltry four and Cygnus Ed (CED) with only two.

MACROS

Of course, macros can be written and stored in Batch Factory's directory for use with any ARexx-compatible package, but in this case the only added attraction of Batch Factory is that it can process several scripts in sequence.

The asking price of \$59.95 is therefore a little less justifiable if you don't use one of the packages on which Batch Factory lavishes most of its attention.

Again, if the thought of writing your own macros prompts you to wash your socks or fix that wobbly table leg you've been meaning to get around to for the last year or so, take a very close look at just how many macros you get for your

The alternatives

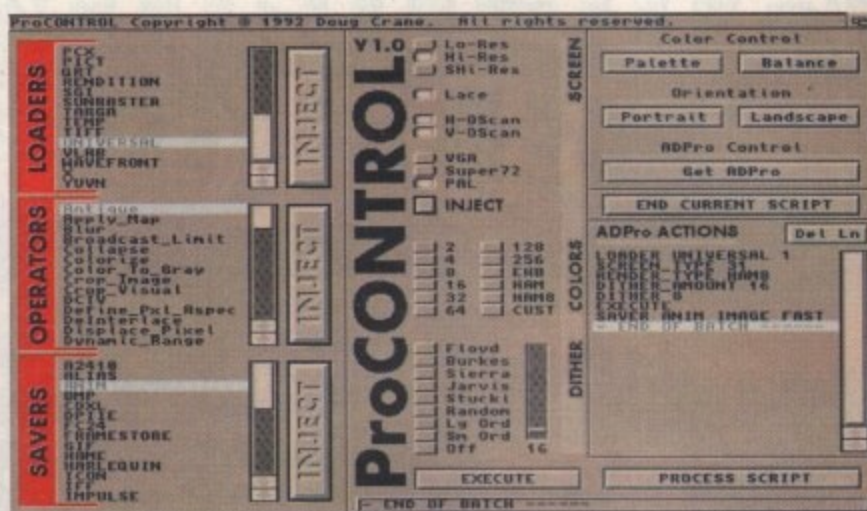
There are few ARexx front-end utilities on the market, a fact which lends Batch Factory much of its appeal, but those that do exist are much better, if more specialised.

ProControl, for example, is dedicated to ADPro batch processing and does the job beautifully. Its simple and elegant interface is much more attractive than Batch Factory's, and ProControl has the invaluable advantage of building scripts from scratch using point and click input from the user.

In a straight fight for the ADPro market, Batch Factory would go down in the first, stagger on through the second, and take a ten count in the third at the latest.

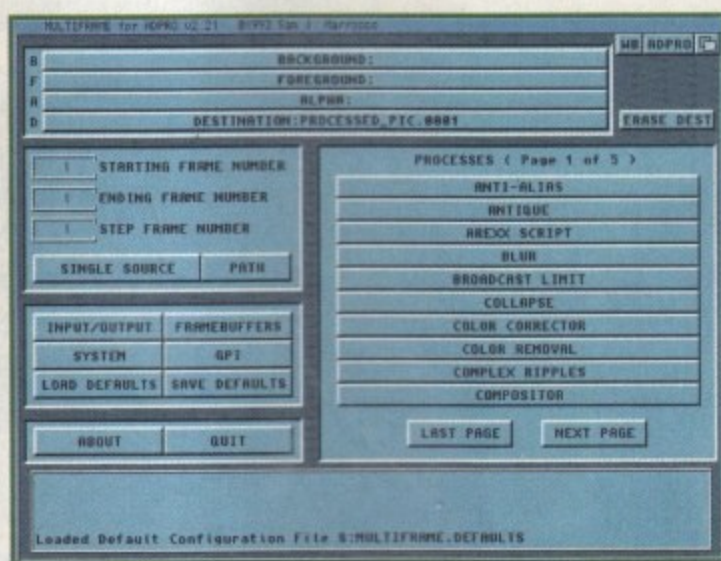
Multiframe is a slightly different proposition in that it can be used to preview the effects of a script, a huge aid when rendering something like a 24-bit ripple pattern.

As a batch processor it's fine, but many users will want something simpler for straightforward jobs. Unfortunately for Batch Factory, ProControl will scoop up most of these people in a trice.



ProControl: more specialised than Batch Factory, but a far better companion to ADPro

hero



Multiframe: great program, but a bit OTT just for batch processing

mullah. In use, Batch Factory is very easy to use, and the manual is only really needed when the program is first installed.

So long as ARexx is running (the RexxMast program is usually run from Workbench's startup-sequence), Batch Factory will launch the required program, be it Image FX or ProPage, and carry out its assigned task without fuss.

MASTERING

Some tasks will require user input in the form of a new filename or a specified saved files directory, but all the tricky stuff drifts by while you make a cup of tea and give your latest issue of *Amiga Computing* the thorough reading it deserves. As with other

ARexx front-ends such as Fred and Mutiframe, you can master this program armed only with a working knowledge of the mouse.

Besides the scripting functions, Batch Factory has a couple of very useful extra buttons, namely the reverse and loop buttons. Once the program knows the first and last files in the list to be reversed, the reverse feature inverts the order of the images and adds them to the list for

processing. This can be very handy when creating large animations and saves rendering the same sequence twice just to get, say, a morph to reverse its course.

Loop is a simple button which again prompts for a first and last file before taking the selected files and adding them (in their original order) to the end of the file list.

DPaint users will probably be thinking "so what?", but though looping and ping-pong are easy with 32-colour DPaint anims, it's not so easy with 24-bit images and not as widely supported in higher level packages.

APPEAL

These final two features give Batch Factory more appeal, but overall the package will only sell to those who use the packages it supports most or to those who already program in ARexx.

Without the facility to build new scripts from within the program, Batch Factory falls down in the novice stakes and robs itself of a much larger audience.

What's a macro?

ARexx is the Amiga's script-based language for communication between different programs and has been supplied as standard since Workbench 2.0 was released.

An ARexx script is written as a text file in an editor such as ED or a word processor, then saved to disk for use by any program which supports the standard (most do nowadays).

When a script is executed it runs in the background and can be used to do just about anything, so long as the application it is aiding has enough of its own ARexx functions built in. ADPro and ProPage are good examples of programs which can be completely controlled from ARexx.

The script sends and receives commands from its parent program and can loop over and over again to carry out mundane tasks, such as renaming all the files in a particular directory or creating an animation from hundreds of single images.

Batch Factory has over 300 scripts (or macros) and can run any that the user creates, thus taking the drudgery out of many tasks.

SYSTEM ESSENTIALS

RED = Essential BLACK = Recommended

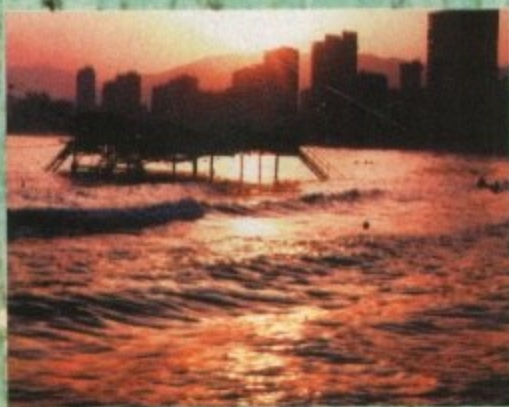
Workbench **2** Hard drive **5 Mb** RAM

The bottom line

Product: Batch Factory
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Ease of use _____ 8
Implementation _____ 6
Value for money _____ 6
Overall _____ 7

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Through the square window

Paul Overaa tackles the next stage of his example utility by adding some window opening code...

assembler language

Part 2

This month we are opening windows the modern way (Release 2 onwards) and in order for things to make sense, some system routine changes need to be discussed.

In order to create the enhancements which came with Release 2, many established system procedures, like window opening, required extra data items to be specified.

The new Commodore approach to this is based on the use of arrays that contain pairs of items consisting of an identifying label and a corresponding 'real' parameter value.

Since these lists provide a way of tagging additional parameters onto existing O/S structures, they have been called tag lists and are based on system structures known as TagItems.

If you look in the Utility/tagitem.i header you'll find that these entities are actually defined as above:

```
STRUCTURE TagItem, 0
ULONG ti_Tag
ULONG ti_Data
LABEL ti_SIZEOF
```

The STRUCTURE, ULONG and LABEL items are some general system macros designed to allow the assembly language included to be written using C style structures.

You don't need to know how they work, just remember that each tag item consists of a pair of long word values – the first long word provides a 32-bit identity, the second a corresponding 32-bit parameter value.

Tag identity values are, in the main, context specific and in the intuition.i header file for example you'll find definitions of a great many Intuition-related tag identities.

WA_Left, WA_Top, WA_Width and WA_Height for instance are used to specify window position and size information.

A number of general tag item values have

also been defined and can be found, along with the TagItem structure itself, in the utility/tagitem.i system include file. Here are some example entries:

- TAG_IGNORE Indicates that the associated data item should be ignored.
- TAG_SKIP Skip this and the next ti_Data TagItems.
- TAG_END Signals the end of an array (the ti_Data field is unused).

You'll see how tag list data is defined and used as we sketch out this month's code, but before that I need to explain exactly what we shall be doing.

Last month I dealt with the code which, among other things, opened the Intuition library. Now you might think that once this library has been opened we would simply have to use a suitable library function to open a window in the Workbench screen. Sorry, no such luck!

To prevent a user or application from closing the Workbench before we can open a window, a 'locking routine' must be used to force the Workbench screen to remain open.

An 'unlocking' function is also available and the idea is that we sandwich the window opening code somewhere between the locking and unlocking code.

The locking/unlocking routines, called LockPubScreen() and UnlockPubScreen(), can be used on any public screens and are handled just like any other library functions.

The required parameters are set up, the

```
Amiga Computing Assembler Series by Paul Overaa

RC2.s
.loop
    move.w #5-1,d3          loop counter
    move.l (a2)+,a1        library name pointer
    moveq #0,d8            any version will do
    CALLSYS OpenLibrary,_AbsExecBase
    move.l d8,(a3)+        store returned base
    dbeq   d3,.loop

    beq.s lib_error_exit

; all libraries are open and available for use.
    jsr   LockScreen
    beq.s closedown
    jsr   OpenWindow
    beq.s closedown

; window is now open so we could do something!
; all I'm doing at the moment is...

delay
    move.l #50000000,d8    temporarily wasting some time
    subq.l #1,d8           so window appears for long
    bne.s .loop           enough to be visible!

closedown
    move.l (a5)+,d8        retrieve function pointer
    beq.s lib_normal_exit
    move.l d8,a0
    jsr   (a0)             and execute routine if it exists
    bra.s closedown
```

OK, so an Intuition window like this may not look like much, but in producing it we've covered a lot of important groundwork!

library base is placed in register a6, and the appropriate indirect sub-routine call is made. On return, the results (if any) are checked to see that they are valid.

One way of locking the Workbench screen is to set up a static name definition using a dc.b directive, along with a variable to store the returned Workbench pointer. For example:

```
workbench_name    dc.b 'Workbench',NULL
workbench_p      ds.l 1
```

and then use this type of bare bones library call arrangement:

```
LockScreen lea    workbench_name,a0
pointer to screen name
CALLSYS
LockPubScreen,_IntuitionBase
move.l    d0,workbench_p
save returned pointer
rts
```

The basic code for unlocking the screen is even simpler:

```
UnkScreen moves.w #NULL,a0    screen name not
needed
move.l    workbench_p,a1
screen to unlock
CALLSYS  UnkPubScreen,
IntuitionBase
rts
```

We need to tell Intuition which screen we want our window to open in and this, along

with various other parameters, is something that we specify in a tag list.

For clarity, the standard Commodore tag identity names should also be used, but to avoid requiring the use of the official include files I'll be setting up these items within the source code itself.

The following EQUates do just that and produce results identical to those found in the official intuition/intuition.i and utility/tagitem.i include files:

```
TAG_DONE EQU    0
WA_BASE EQU    $80000063
WA_Left EQU    WA_BASE+$01
WA_Top EQU    WA_BASE+$02
WA_Width EQU    WA_BASE+$03
WA_Height EQU    WA_BASE+$04
WA_Title EQU    WA_BASE+$0B
WA_DragBar EQU    WA_BASE+$1F
WA_PubScreen EQU    WA_BASE+$16
```

WA_Left, WA_Top, WA_Width, WA_Height and WA_Title are used to provide details of the size and title of the window (provided in the corresponding data fields).

WA_DragBar, as the name suggests, asks Intuition to place a drag bar on the window if the data item field is set to TRUE and WA_PubScreen is used to supply the address of the screen being used.

Most tag identities and values can be set up as static definitions consisting of identity+value pairs, so for the most part we can decide what values are needed

before assembling the program!

The data part of the WA_PubScreen however, a pointer to the public screen, cannot be set up in this way, since the value comes back at run time from the LockPubScreen() function. Because of this you'll see that I've given the WA_PubScreen data field a separate label.

The WorkBench address has to be stored anyway (it's needed in order to release the public screen lock) so I've chosen to store it directly in the tag list data.

Once the screen is locked a window can be opened and in this month's code I am creating a 640x200 pixel window with a drag bar which opens at the top left screen location of (0,0).

Here are the tag list storage definitions being used:

```
tags    dc.l    WA_PubScreen
workbench_p    ds.l    1
dc.l    WA_Left,0
dc.l    WA_Top,0
dc.l    WA_Width,640
dc.l    WA_Height,200
dc.l    WA_DragBar,TRUE
dc.l    WA_Title,window_name
dc.l    TAG_DONE,NULL
```

Prior to the OpenWindowTagList() call, register a1 will be loaded with the start of the tag list using code which in its simplest form looks something like this:

```
OpenWindow    moves.w    #NULL,a0
lea    tags,a1
start of tag list
CALLSYS
OpenWindowTagList,_IntuitionBase
```

Error handling and program closedown

At the moment we've got just four additional operations to perform. Screen locking and unlocking, and window opening and closing. There will be many more in the final program and, as with library opening, many of these operations may conceivably fail.

For this example program I'm going to adopt an approach which is a simplified version of something which, in my C programs, I call 'dynamic resource allocation'.

The idea is to code all allocation and opening operations as separate sub-routines that try to carry out their intended job and then either fail and return an error code, or succeed and push the address of a corresponding de-allocation routine onto a function pointer stack.

Under normal (non-error) termination conditions, program closedown occurs by reading any existing pointers from the function pointer stack and executing the corresponding de-allocation routines.

If during any of the allocation attempts an error occurs, the same stack emptying routine gets called, but only those pointers that have been placed onto the stack prior to the occurrence of the error will be retrieved and executed.

Hence, one de-allocation loop handles both error and non-error condition closedown perfectly safely.

This may seem like an unnecessary complicated way of doing things but it's not been used to make things difficult for you. Far from it, because this technique makes systematic program closedown a piece of cake – just look how easy the de-allocation loop is to code:

```
closedown    move.l    (a5)+,d0    retrieve function pointer
beq.s    lib_normal_exit
move.l    d0,a0
jsr    (a0)    and execute routine if it exists
bra.s    closedown
```

We pull the function pointer off the stack and providing that it is non-zero, execute the function. Just five instructions are needed, so the 680x0 chip is pretty good for these type of operations – do note though that a data register (I've arbitrarily chosen d0) has to be used within the loop because you cannot use the 680x0's move instruction to load an address register directly.

You'll notice in the source code on disk that I've set up a null address right at the top of the function pointer stack – this is specifically to allow this zero address test to be used to indicate when all items have been removed and used.

There is another important benefit with this stack-based approach as well. The de-allocation/closedown routines automatically get executed in the reverse order to that used in the initial allocation/opening stages of the program.

This provides a nice safe way of de-allocating things and avoids having to use loads of 'spaghetti code' jumps and branches to provide error pathways when operations fail.

Listing 1 shows the code arrangements for the locking/unlocking routines and listing 2 shows the window routines. (Note: these listings referred to are on the Cover Disk along with the extended version of the code.) Notice incidentally that I'm using an error label that starts with a period in both sets of routines.

This is Devpac's way of signifying a local label (a label that gets tagged onto the last used normal label to allow effective re-use of commonly used labels like loop, error and so on).

I've also changed a couple of loop names from last month's code to provide other local label illustrations. Note however, that with some other assemblers you may need to remove the periods and add a terminal \$ sign to the labels to get the same effect (if in doubt, check your assembler manual).



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*As Summer has drifted to its conclusion and
Autumn's deep hues are now upon us,
James Johnson goes scrumpping for quality PD*

Check out the latest and greatest from the world of PD. Whether you need the latest utility or want to indulge in the delights of demos, from Bjork to Grand Prix Racing, the Public Domain has a lot to offer...

RDS 2.0

Programmed by: Ben Sutter
Available from: Your Choice PD

There's a fair chance you'll have seen an RDS somewhere before. A Random Dot Stereogram is a strange type of picture that is supposed to appear as 3D when viewed in the correct way.

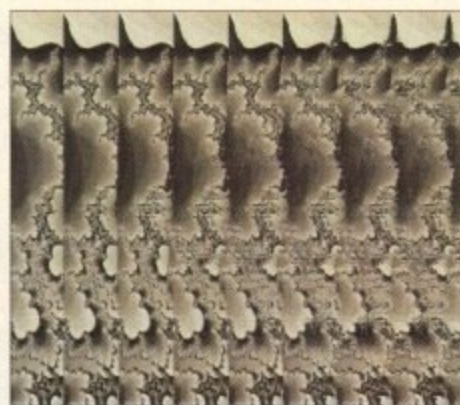
Well now there's a program for your Amiga that allows you to create your own, and also a text file which explains exactly how they work.

If you, like many others, have come across these strange pictures before, you'll either be able to see them or you won't. If you can't then I'm sure you'll agree they can become extremely frustrating and soon you'll convince yourself that they don't exist.

Maybe you should get hold of this offering and lock yourself in your room until you can. Believe me, it can take a while, but it's definitely worth it.

This program allows you take any normal IFF picture (like the ones created in Deluxe Paint) and transform it into one of these magical wonders. The good news is that it works, and it works quite well.

However, RDS is quite fussy in that it only works with some pictures. Generally I found



Can you see a 3D image?

that black and white or greyscales produced the best stereograms, so don't go feeding in some hi-res AGA still as it simply will not work. This is the only obvious drawback to the software itself, which otherwise does a good job.

The program is menu driven, simple to use, and you should have no problems getting it running. In five minutes you can create your own 3D masterpieces and save them as standard picture files. If you own a printer then there's no stopping you. Great fun.

Racing Maniacs

Programmed by: Paul Gaze
Contact: Paul Gaze

Racing Maniacs is a fast game. It's even faster on an A1200. In fact, it's so fast you'll probably have difficulty playing it at first.

Racing Maniacs is (as you've probably guessed from the title) a racing game in the style of Formula One Grand Prix, and is quite enjoyable.

Two versions of the game are included on the disk; one for AGA machines and another for the opposite. Obviously it's enhanced for the A1200 and runs like a dream.

The graphics are in a 3D style and certainly nothing to boast about - basic green, grey and blue polygons that represent the

Big Time AGA

Programmed by: Axis
Available from: Freestyle PD

There's a lot of AGA demos floating around at the moment, and here's another to add to the collection. This one is spread over two disks and features some impressive graphics and effects including the usual plasma clouds, hi-res stills, and also some original effects - some of which are quite excellent.

The demo opens with an impressive display of a mountain range, and uses some careful animation and pixelisation to add to the atmosphere.

One thing I realised after watching this particular demo was the lack of any form of spinning objects that normally rule the demo world, and this in itself is promising.

Big Time AGA definitely makes full use of the AGA chipset, with 256 colour pictures and backdrops of a stunning quality.

There's also a thumping tune by Bjork pumping away in the background which lasts throughout the demo and is surprisingly clear.

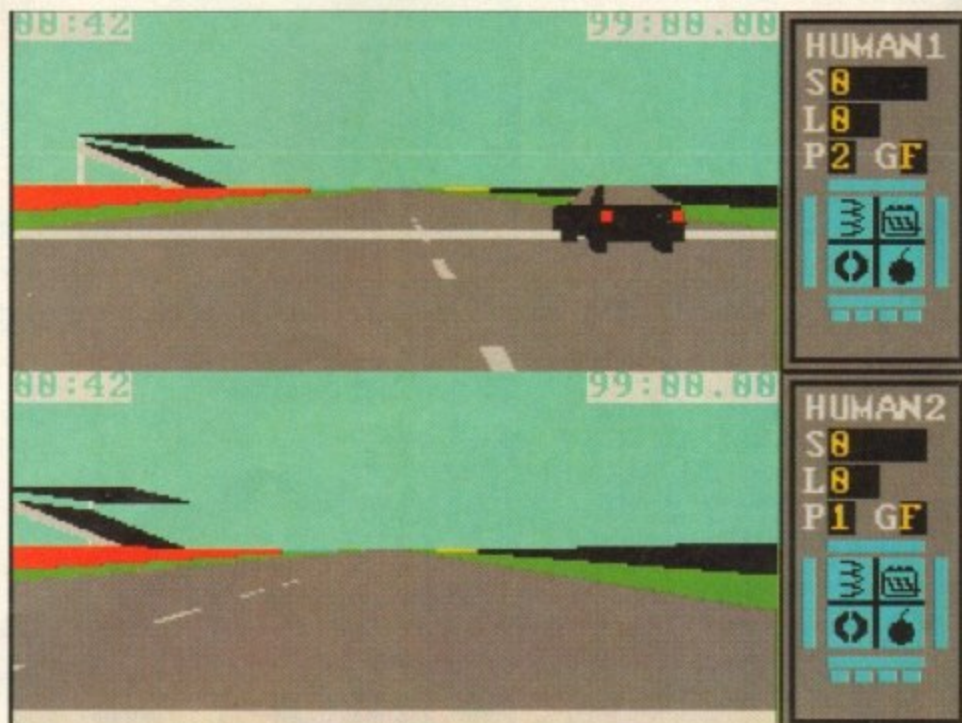
obvious. The playability on the other hand is where this game wins hands down.

There are a few different options of gameplay such as head-to-head, tournament and different tracks to choose from, but essentially the style of play is the same.

You control a car and race around various tracks against your opponent, with all the usual features of damage, bonuses and - as an added feature - weapons to attack your opponents vehicle with during the race.

You are supplied with four mines for each track, the purpose being to destroy your opponent and claim victory. This adds a little more excitement to the game, especially when racing against your friends.

The best way to describe Racing



*Racing Maniacs is the
name, Racing
Maniacs is the game.
High speed driving
with a difference.*

ART of the MONTH



Impressive AGA stills on offer with Big Time AGA



Punters: Serious money. Well, maybe not, but still a good laugh.

Maniacs would be to look no further than the title itself, which summarises the game perfectly.

While Racing Maniacs cannot compete with the likes of F1GP, and is fairly limited due to lacking in that essential "I want more" factor, it is still a good laugh and offers some exciting features. Check it out.

Punters

Programmed by: G Smith and R Horn
Available from: Sanity Soft

Anyone for a bit of gambling? Supplied on an enormous four disks, Punters is a collection of various gambling-related games just perfect to entertain yourself with on a rainy day.

There are five different games in total and up to four people can take part at any one time. There's also provision for single players, although it's not nearly as much fun.

Choose from a quick bash at the fruit machine, a day at the races, a round of Yahtzee, Othello or maybe just a game of Blackjack. Whichever you choose, there are

tons of options and features to keep you going.

Although not exactly stunning in the graphics or sound department, most of the games are of an average quality and offer similar features to their real-life counterparts. Nothing special however.

The only major drawback I can see is the disk swapping. The entire compilation is provided on four disks but linked together into one main system, whereby you choose and then insert the required disk.

This can become a bit tiresome, although it is possible to install the game on hard disk which is a relief for some. Maybe it would have been a better idea to supply the games on separate disks (after all, they are essentially separate games) to avoid

Aliens - Special Edition Slides

Available from: Kevin Howell

As far as slide shows go, there are good ones and there are bad ones. This collection of shots from the film "Aliens - Special Edition" unfortunately falls into the latter category.

Provided on two disks, the first major drawback to become apparent is the requirement of an external disk drive in order for it to run correctly. This prevents anyone without an external from viewing the slides and could easily have been avoided with a simple disk swap.

Don't worry though, as you're not missing much. A bunch of poorly digitised, dark and gloomy pictures from the film, these might just appeal to the greatest fans of the "Alien" films.

To add to the insult, the soundtrack is nothing special and so this hardly grips the viewer with any particular interest.

There are hundreds of slide shows for the Amiga, some offering excellent graphics, thumping sound-



Sigourney Weaver features in this rather poor quality slide show.

tracks and greater compatibility. Many of them are just one disk in size, and beat this particular offering hands own.

Do yourself a favour and order two slide shows of a higher standard for the same price.

Calling all PD libraries....

....and individuals with anything remotely worth my while having a peek at. If you want something released as PD, or you're a library with stacks of hot new stuff that you haven't seen reviewed yet, why not drop me a line with a copy, full documentation and everything clearly labelled? I promise I'll at least look at your work.

Tina Hackett, PD Submissions,
Amiga Computing, Europa
House, Adlington Park,
Macclesfield, SK10 4NP.

booting through the menu system and tedious disk swapping.

If you're a particular fan of this sort of entertainment, then Punters is for you. It's nothing special but does offer a good selection of quality games to keep you occupied even on the duller of days.

DiskManager v4.0

Programmed by: Andrew Woods
Available from: KEW=II Software
Disk No. U1100

As the title suggests, DiskManager is a disk cataloguing program that allows you to obtain and store information about the



Store data about your disk collection with DiskManager.

simple aspects of your floppy disks. Basically, you insert the disk you wish to use and then select the option you require from a menu.

You can use DiskManager to build up your own database of all your floppy disks, holding information such as the files contained, the file system, space left, bad sectors and much more.

Simply by scanning the required disk, DiskManager will display all the necessary information and store it where you like.

Also included are some of the basic DOS commands related to files, such as delete, rename, etc. This is extremely useful for file management and although not giving as much control over your disks than, for example, Directory Opus or Sid v2, is still a worthy feature.

Included is the ability to search through either your whole database or just a particular disk for specific file names, directories and files of a certain size. This is ideal for locating a particular file and its whereabouts in your disk collection.

Although DiskManager does offer an enormous selection of facilities, I didn't find the actual program very appealing, mainly due to the fact that the bulk of the features offered are available using other utilities.

Commercial programs such as Directory Opus, Quarterback Tools and even Workbench and AmigaDOS are generally far superior and also offer greatly used features that DiskManager sadly doesn't.

Magic Workbench Extras

Available from: Kew=ll Software
Disk No. U1096

A while ago now, Magic WB was released in the Public Domain. It immediately shot up the charts as more and more Amiga owners saw it as a way of transforming their Workbench into a completely new and



Hundreds of icons on offer with this Magic WB upgrade.

First Aid Essentials

Programmed by: Gerard Fitzpatrick
Contact: Gerard Fitzpatrick

The public domain is huge. However, most of the software available tends to be either some form of game or demo and we see little in the way of informative and educational work. Obviously there are such titles, but just a minority compared to the games world.

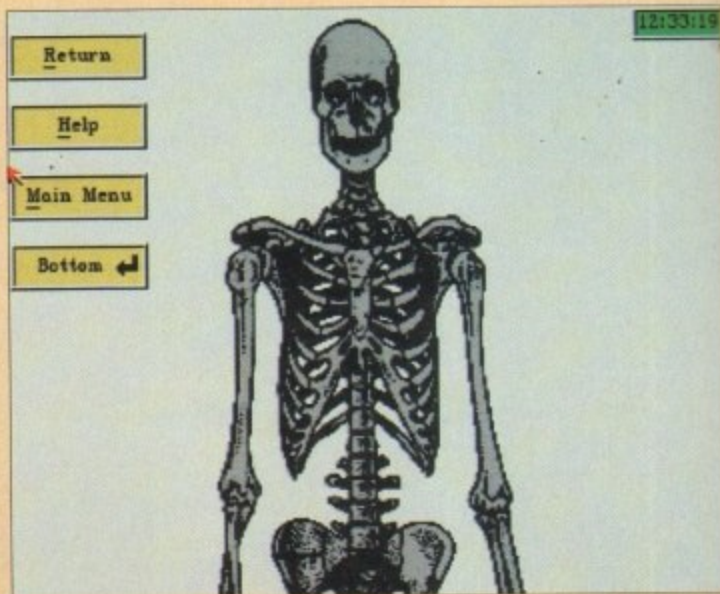
First Aid Essentials is definitely one of those in the minority and because it's so different, it is likely to be the only one of its kind.

As you may have already guessed, First Aid Essentials is a guide to first aid and what steps or precautions can be taken.

Working from a large database, FAI offers information to the user on all different aspects of the human body - injuries, illnesses etc. It's simply a case of selecting the category from a menu screen to access the information necessary. For example, if you wished to obtain information on food poisoning, select "poisons", then "food-poisoning" and bingo, the information is displayed before you under three headings of symptoms, treatment and causes of illness.

From this database you should be able to find most of the information required. Using First Aid Essentials is just like looking in an electronic book and could prove extremely handy in an emergency. Although this disk will appeal to just a small handful of people, it is a very professional and informative piece of software, and while not being the most interesting of PD titles available, I thoroughly recommend it.

Even if it sits at the back of your collection for an age, the fact that it could come in handy one day is by far enough reason to own it.



Check out the human skeleton with First Aid Essentials.

original piece of software.

In fact, they were wrong. All Magic WB consists of is replacement backdrops and icons; and essentially does not alter the software at all. However, it gave Workbench a new and more attractive look and many Amiga owners opted for its more professional style.

There was just one main problem concerned with Magic WB. Now the Workbench backdrop and icons were of a similar theme, any other icons (of utilities or games etc) unfortunately looked out of place with their old style blue and grey design, ruining the effect that Magic WB creates.

Although it is impossible to solve this problem completely (short of designing your own icons) the author of Magic WB has done his best to prevent it, and has now released a whole disk full of replacement icons (and backdrops) for most of the popular AmigaDOS utilities.

Included on this disk are icons for the likes of DPaint, ADPro, Directory Opus, DiskSalv, and loads more. There are also alternative icons for some of the earlier Magic WB offerings and some new ideas such as icons for certain types of files, for example graphics or sound.

If you weren't satisfied with the selection of backdrops with the first release, then have a browse through the drawer of replacements, some of which are quite interesting.

If you have Magic WB installed on your Amiga, then this disk is an invaluable upgrade and should definitely be considered. You may not use all the files offered on the extras disk, maybe just a few, but even if only for the choice or a little alter-

ation this disk is worth getting hold of. Your Workbench should be left looking even better than it did before!

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Gerard Fitzpatrick

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SYSTEM

Your essential guide to the world of Amiga gaming

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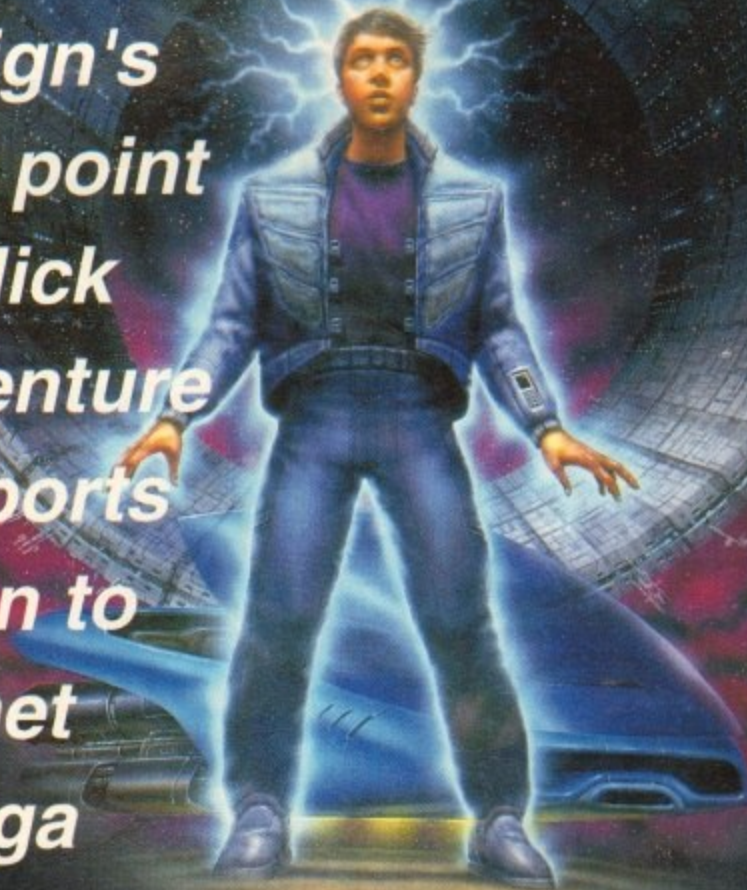
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epic point
'n' click
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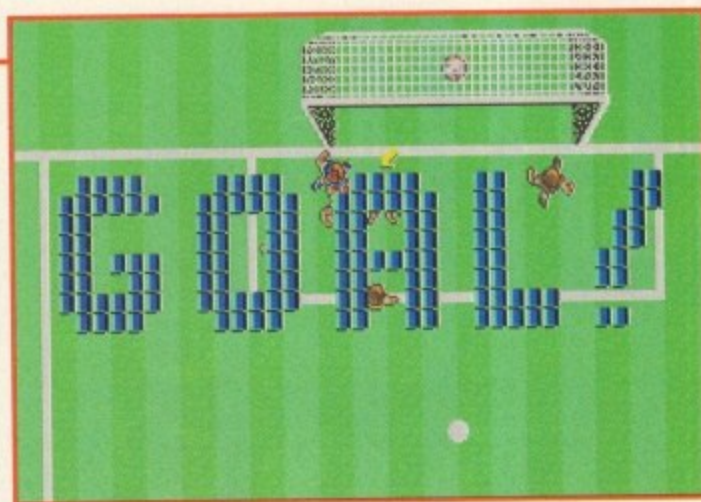


Budgets under a bluey!

The Birmingham-based software house US Gold has just announced the launch of 15 titles on their Kixx budget label.

The titles include 3D Pool, Action Fighter, Bionic Commando, Blasteroids, Carrier Command, E-Motion, Indiana Jones & The Last Crusade, International Soccer Challenge, MicroProse Soccer, Out Run, Rick Dangerous, Rick Dangerous 2, Streetfighter, Stunt Car Racer and last, but by no means least, World Class Leaderbord.

All the titles are priced at £4.99, so there is no excuse for not running down the shops to buy a couple of new games. All the products should be in the shops by the time you read this.



system online

Yet another bout of news from the world of Amiga gaming. If you want to know what's going to be hitting the shop shelves soon, read on.

The biggest game of '94?

Millennium, the Cambridge-based software house responsible for such hits as Brutal Sports Football, Diggers and the James Pond series of games, claim to have bagged the biggest games licence of 1994.

The game is Mr Blobby and it will feature 60 levels of madness, mayhem and some darned fine gameplay to match. By the time Christmas comes around, you won't be able to move without bumping into Noel Edmonds' pink and yellow creation.

Noel's House Party is watched by 13 million viewers and Blobby has even appeared on the front pages of the New York Daily News

and the Washington Post.

Noel Edmonds, so confident of Blobby's forthcoming success has already launched a number of Theme Parks in the UK which are attracting up to 10,000 visitors daily.

By the time the game arrives, a second hit single will be clambering up the charts and there will be over 260 Mr Blobby licensed gifts and products on the market for you to buy.

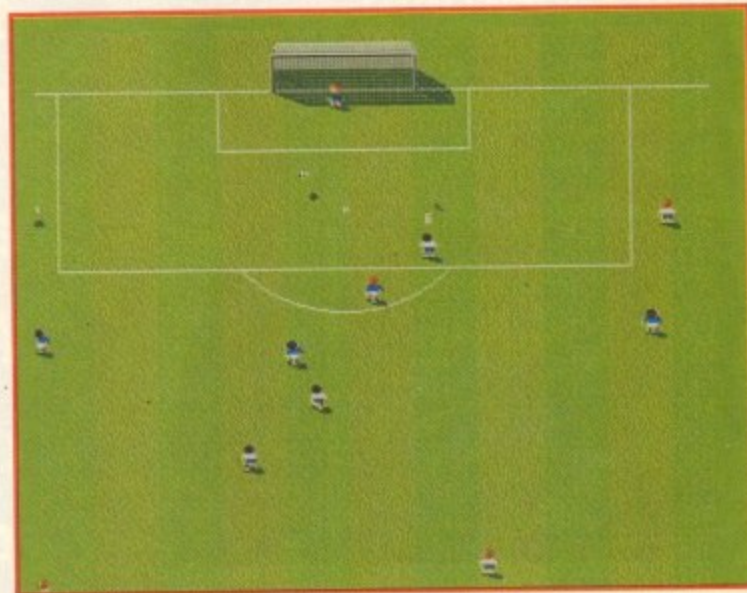
I'm still unsure, simply because I can't stand Mr Blobby, but we shall see when the game arrives on all Amiga formats this Christmas.

Going for goal!

The World Cup is now over and I bet you've been as surprised as System at the amount of football games sitting on the shop shelves. You'll not have been able to afford all of them, but Empire have come up with what is surely the best-ever football compilation pack.

Empire World Cup Year '94 contains Sensible Soccer, Goal, Championship Manager '93 (plus it's '94 data disk) and Striker. For football aficionados this is surely a compilation sent from heaven, but I suppose the majority of games players have got at least one out of the four games.

If you haven't got any of these games then this is your lucky day, because Empire World Cup Year '94 costs only £25.99 which works out at about £6.50 per game.



Happy Daze are here again

Daze, after the tremendous success of Stardust, are back on the Amiga with two brand new releases to keep you entertained during the autumn months.

The first is the German-designed football management simulation entitled *On The Ball: World Cup Edition*. Developed by Ascon, you begin the game as manager of a national soccer team, facing the first few qualifying rounds of the world's greatest sporting spectacular with the desire to go all the way and win the trophy.

On The Ball features unique TV style coverage of each match with exciting action replays from various different vantage points around the stadium. A running commentary is also provided to add to the atmosphere.

The graphics are actual animations and not jerky computer generated images. *On The Ball* has apparently sold loads of copies in Germany and now Daze are hoping that it will do the same here in Great Britain.

On The Ball looks like a breath of fresh air in the world of computer football management simulations and should be out in the shops by the time



On the Ball is a brand new football management simulation which features amazing match animations as well as unique TV style coverage

you read this. Daze's second offering is the third part in the epic *Ishar* series of RPG/adventure games. The games have become extremely popular over the last two years, mainly due to Silmarils' efforts in the graphics department.

This time the French software house have included animated film sequences, quantum leap time travel, teleportation, character manipulation, detailed maps and even more spectacular locations.

The evil wizard, who you thought you'd killed at the end of the second *Ishar* game, is back! Time is the main element in this third and maybe final game in the series. To kill the evil wizard Shandar, you must travel back in time and make your way through a series of time gates.

Ishar 3 has a scheduled release date of September and will cost you a mere £32.99. An A1200 enhanced version will arrive at around the same time, but at the slightly higher price of £34.99.



The third part in the Ishar series of adventures, created by top French developers Silmarils, should be on your local shop shelves now

Streets ahead



Street Fighter 2, the world's greatest beat-'em-up (allegedly) is going to feature in its own monthly comic. The Japanese "Manga" style strip will feature all the characters from the top-selling computer game, as they take part in the ultimate Street Fighting tournament, set among the criminal underworld on the Island of Shad.

Street Fighter 2 is the first new title from Manga Publishing, the newly-formed comics division of Manga Entertainment, producers of the best-selling Managa video line. It promises to combine all the action and excitement of one of the world's most popular video games.

The comic strip is written and drawn by Masaomi Kanzaki, one of the top artists in Japan, whose other work includes the popular Manga video, *Xenon*.

Each issue will feature a 32-page full colour story, plus a pull-out poster featuring characters from the game. The first issue spotlights the hero Ryu.

As an additional bonus, a free pack of Super *Street Fighter 2* stickers from Merlin Entertainment will be given away with the first issue. The comic will go on sale for a measly 95p.

SYSTEM Technology

The world of computers is ever-changing and System is here to keep you aware of what else is happening throughout the industry.

- A home VR unit is finally on its way and could even be in UK stores in time for Christmas. US firm Forté Technologies is making plans to launch its standalone unit, beating rivals such as Sega and Atari to the market.

Called the VFX1, it is due to be launched worldwide in November and is expected to cost around the £650 mark.

It's fully PC-compatible, weighs less than two pounds, supports a standard VGA video card and slots into the back of a PC. Several top titles will be available by the time of the launch, including *Doom* by Id Software.

- The Jaguar is arriving on these shores in greater quantities, thus SDL have reduced their RRP to just £229. Jaguar games from SDL include *Crescent Galaxy*, *Dino Dudes*, *Raiden*, *Tempest 2000*, *Brutal Sports* and the PC smash-hit, *Wolfenstein 3D*.

- With the 3DO planned to hit the UK high-street stores, news has been leaked about a new 3DO compatible machine code-named the Bulldog. Scheduled for release at Christmas next year, the machine is said to boast some impressive specifications.

- Nintendo Ultra 64 (the new name for Project Reality) was just one of the machines on show at this year's Summer CES in Chicago. Also on show at the CES, which boasts the largest gathering of video game companies to ever assemble under one roof, was the 3DO and the CD drive for Atari's 64-bit Jaguar.

- There is a Super *Street Fighter 2* motion picture being filmed in Bangkok as you read this. The film is under the direction of Steven de Souza and is expected to be completed in time for a stateside Christmas release.

Jean-Claude Van Damme stars as Guile while Raul Julia plays the evil M. Bison, but perhaps the biggest news of all is that Aussie actress and top pop-star! Kylie Minogue will play the part of Chun-Li.

SYSTEM Selections

Out of touch with the latest Amiga games scene? These elite selections from the last few months should put you back on the right track

Arcade Pool

Arcade Pool can now be added to the list of Team 17 budget successes.

The game may have very nice graphics, but it's in the playability department where it excels.

There are so many different game styles

that you'd be hard pressed to become bored with this piece.

For just under a tenner it is an amazing bargain, especially when you consider that it has actually been in development longer than most full-price games.

James Pond 3

Highly original it might not be, but fans of the previous games and platform lovers will be absolutely besotted with the third instalment. For sheer enjoyment and lastability, you'd have to go far to find a better platform

game than Millennium's tasty third fishy adventure. If you're yearning for some fast, frenetic platform jumping fun, then I suggest you splash your cash on James Pond 3. You will not regret it!

Benefactor

Benefactor is the best thing Psygnosis has released in a long time. It feels like a montage of Flashback and Psygnosis' very own genocidal pets, the Lemmings. Both the graphics and sound have been implemented very well. The variety of both location and

puzzle aspect of Benefactor make it an engrossing challenge.

Benefactor is the type of title that will keep the most dextrous platform freaks and puzzle lovers alike twiddling well into the wee hours.

Banshee

I do like this game and the weirdest bit is, I've never been a fan of shoot-'em-ups! They usually bore me to bits, but Banshee has that elusive quality that drags you in. Each level demands new challenges which are gen-

uinely tough, and the learning curve is just right. This is an intense and extremely satisfying game that should tempt any games fan with an ounce of adrenaline in their veins. The Harvey Keitel of shoot-'em-ups.

Quik The Thunder Rabbit

Casting aside all previous platform games, Quik is really a perfectly funky little game. Admittedly, my first reaction to a platform game about rabbits was not printable in a family publication, but I was won over by the

sheer professionalism of it all. It's probably more suited to younger players, due to its simplicity and cuddly approach, but despite every aspect of it screaming "cliché" it comes across as a very fun game.

King's Quest 6

Adventure fans will be delighted that Sierra have finally decided to release the sixth adventure in the King's Quest series onto the Amiga. As far as adventure games go, they don't get much better than this.

With its brilliant graphics, a fairytale of a plot, superb playability and a level of addiction that will keep you coming back for more and more, King's Quest 6 is an adventurer that should have a place in everyone's games collection.

The scores on the doors

System has a different scoring system than any of our competitors, so before you continue reading the mag, glance at the words below to find out exactly how it works.

I'm sure many of you are now familiar with our new scoring system, but for those reading *Amiga Computing* for the first time and those who might have forgotten exactly how it works, here is our guide to the System scoring, err system.

In our opinion, review scores have lost their context as a percentage; some products receiving scores which were only a few percentage short of being the "perfect" game, when in truth they were only marginally above average.

OK, so the scores might seem unnaturally low at first, but that's only because other scoring systems tend to be on the high side and perhaps not as comprehensive or honest as they could be.

In the long run you'll receive a more concise and reader-orientated review that's geared towards the consumer.

0-20 This is given to the lowest of the low

21-30 An all-round poor game that may have a single saving grace

31-40 Just below the average, perhaps let down by a few indiscretions.

41-55 Games of this score are roughly average with 50 being a perfectly average score.

56-66 This is an above average game and is worth buying. For this reason it would be awarded the BRONZE award.



67-77 A game of high quality that you as a reviewer would have no reservation in recommending. Anything of this ilk would be awarded the SILVER award.

78-89 A brilliant title. Definitely worth buying and almost the definitive of its kind. This type of game would receive the GOLD award.



90-100 The best in its genre. This benchmark title receives the PLATINUM title.



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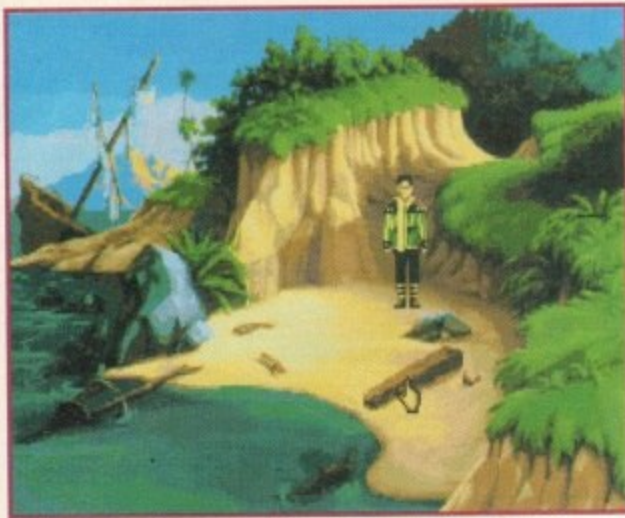
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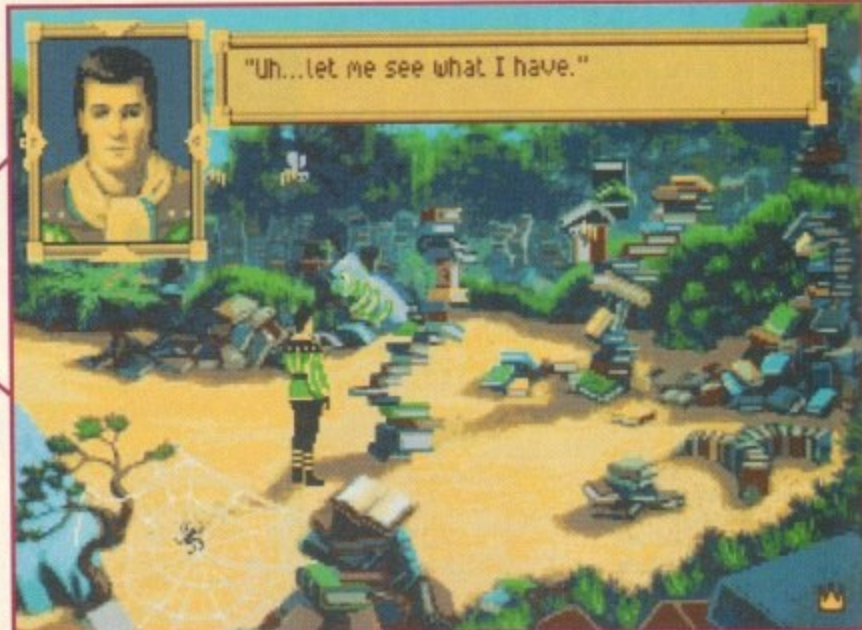
Tel (Home):

Tel (Work):

Which computer(s), if any, do you own?



The start of Prince Alexander's quest to become King and find his lost love, and you can help via this wonderful guide



At exclamation point you bump into a bookworm who has lost his dangling participle. Ouch, sounds painful!

beat the system

The first part of a two part complete solution to Sierra's sixth magical fairytale adventure. Paul Maher guides you through the trials and tribulations of trying to become King.

The start of your adventure and the first thing you have to do is pick up a ring. Your next job will be to move the plank. After you have moved the plank you will see a box, open it up and pick up the coin. Now, walk to the crossroads and from there walk right up to the castle.

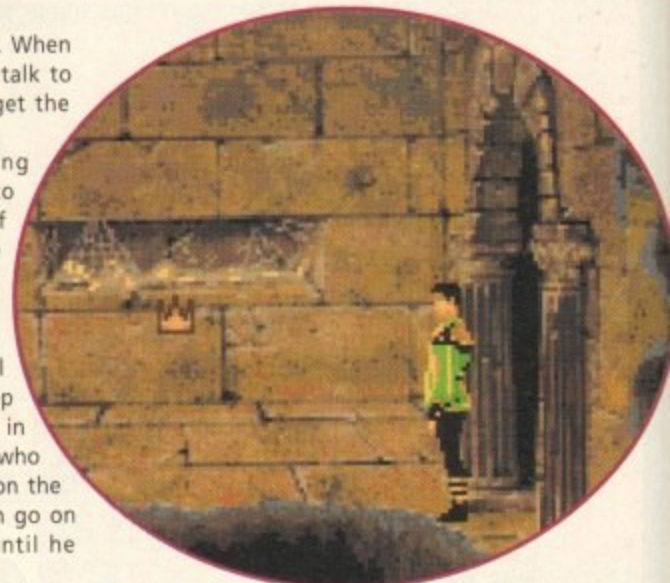
At the castle you will meet a guard. Talk to him and show him the ring. You will now meet with Vizier. After this you will have to walk to the village and

up. Before leaving the shop, click on the spell book on the counter. Upon leaving the shop walk north to the village, look at the beauty in the garden and then go west. Ignore the boy who is swimming and go to the ferryman. Knock on the ferryman's door to talk to the ferryman then go on the ferry. Keep talking to the ferryman until he repeats himself.

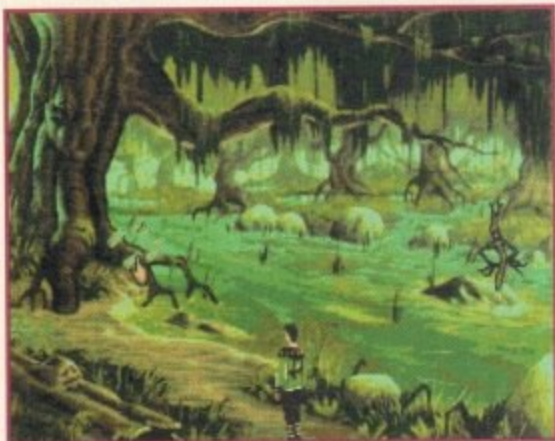
When he does this take the rabbits foot and exit the ferry. Now walk back to the village and go to the

enter the book shop. When you are in the shop talk to the shop owner to get the ferry references.

Collect the boring book and then go to the love poem shelf and read a love poem. A page should fall to the ground and you can pick it



Alexander wanders around the catacombs looking for the beast. That geezer in the wall looks as though he's already met him. Gulp!



In the swamp and things are starting to get very spooky indeed. Nothing to go on as yet, but you'll be back here later!



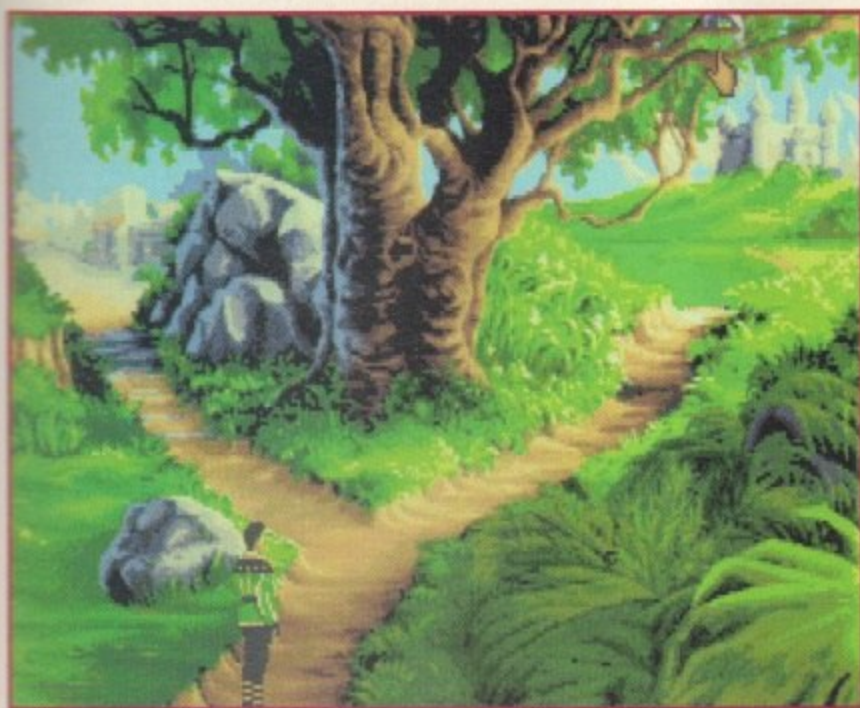
Pick up one of the iceberg lettuces because it'll come in very handy for later on in the adventure

book shop. Walk inside and talk to Jollo the clown. Show the ring to Jollo and then leave the shop.

Make your next stop at the pawn shop and pick up a mint. Talk to the shop keeper who will produce a map. Show the ring to the pawn shop owner and trade it for the map. Observe the next animation and then show your coin to the pawn shop owner. After showing your coin to the pawn shop owner, take the nightingale and leave.

MAGIC MAP

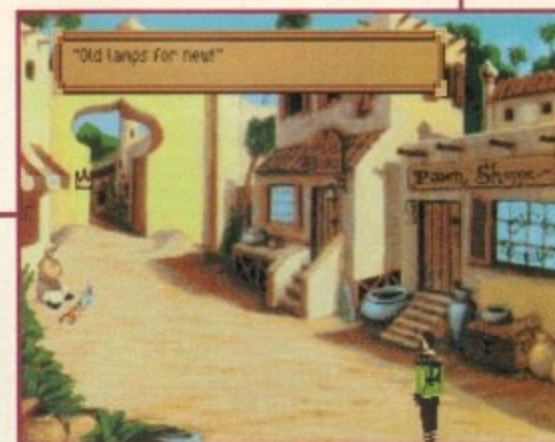
Once outside leave the village and return to see another animation. You will now find a bin. Get some invisible ink from the bin, then go to the beach. Use the magic map and from it select the Isle of the



Use your wind-up nightingale on the real nightingale and you will find that the bird will take love poems to your Princess



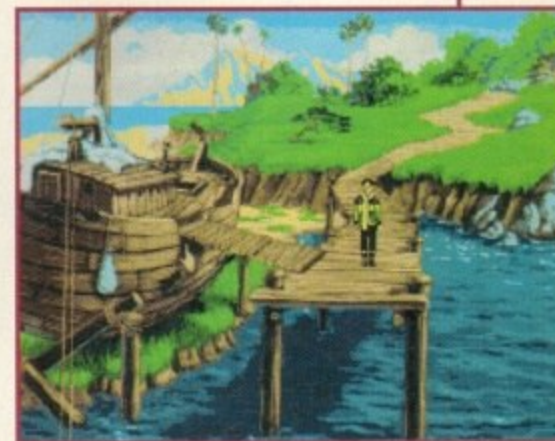
The guard-dogs at the palace won't let you in, so change direction and see if there is another way to enter



Talk to the lamp seller and you never know, you might get lucky and get a lamp with a genie inside!



The pawn shop is one of the most useful places you can visit for getting important objects



Go and see the ferryman, but watch out for the boy in the water. Don't dive in to join him or it'll be game over!

Quest 6

Sacred Mountain.

On the mountain pick up a flower and a feather, then using the magic map once more select the Isle of Wonder.

On the Isle of Wonder you will meet up with a number of gnomes. You must use the flower on the smell gnome, the wind-up nightingale on the sound gnome, the mint on the taste gnome, the rabbits foot on the touch gnome and use the invisible ink on Prince Alexander in front of the see gnome.

Next you should get the sentence from the water. You will meet an oyster, whereby read the boring book to the oyster and when it opens its mouth take the pearl.

When you have done this head east to exclamation point. When you reach exclamation point try to take a pile of books and you will be asked to get a dangling particle for the exchange of the books.

Walk back to the beach, then north through the swamp to the garden and pick up an iceberg lettuce, before heading back to the beach. Use the magic map again and go to the Isle of Beast.

Once on the Isle of Beast walk north to the boiling pond. Use the iceberg lettuce to cool the pond where there should be a hunters lamp in a tree - collect it. Next you should head north ignoring the gardener on the way and you should find a brick - take it and walk back to the beach. This is where you meet the dangling particle.

Talk to the dangling particle and read it the sentence. Now use the map to go back to the Isle of Wonder. When you land on the beach walk to exclamation point again. Try to take some books and when the bookworm appears use the dangling particle on it in exchange for a rare book. Open the rare book in the inventory.

Click on the dangling thread to distract the spider and while the spider is distracted get the scrap of

paper. When this is completed walk back to the beach and use the map to get back to the Isle of Crown.

From the beach, head for the crossroads. When you find a nightingale use the wind-up nightingale to befriend it. When you have done that, walk into the village and read the proclamation.

Then enter the pawn shop. Use the wind-up nightingale on the shopkeeper and then select a flute from the counter. Exchange the pearl to get the ring back and then exit.

Go into the book shop and talk to Jollo. Swap the rare book with the shopkeeper for the spell book. Open the spell book in the inventory for the ingredients, exit the shop and walk to the crossroads.

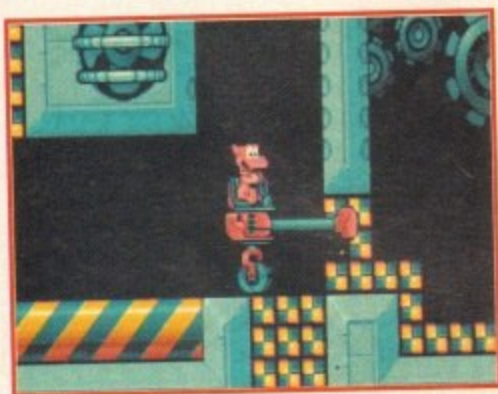
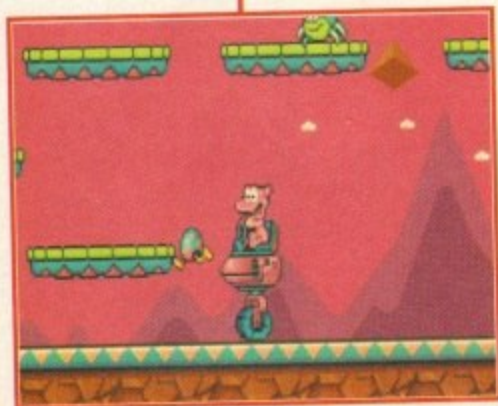
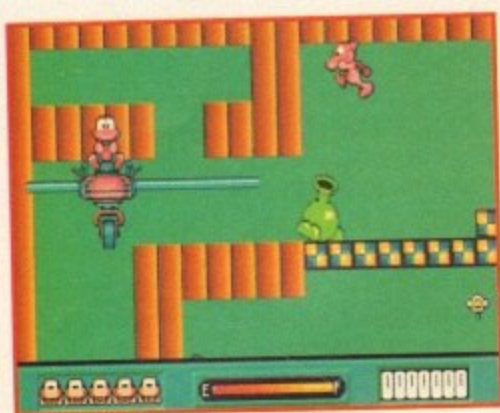
INVENTORY

Use the ring on the nightingale and then pick up the ribbon. Click on the ribbon in the inventory to get a hair strand and then walk to the beach. Use the magic map to go to the Isle of Wonder. Once on the beach, go to the garden.

In the garden there is a teacup on the chair. Take it and also pick up the rotten tomato. There is a hole in a wall. Look at the hole and then click on it. Use the flute to make the wallflowers dance. While the flowers dance, click on the hole-in-the-wall.

Go through the gate into the chessboard land. Once in chessboard land, walk towards the chessboard guard and observe the queen. Get the red scarf, walk back to the swamp and use the teacup on the swamp.

Give the rotten tomato to the bump on a log. Use the teacup on the swamp-ooze, which can be found on the log. Walk to the beach and use the map to go back to the Isle of the Crown



Millennium's new cutesy platform star must save the dinosaurs by collecting the spotty eggs, remembering to deposit them in his superb Pinkie pod for safety.

FLASHBACK

There have been so many platformers similar to Pinkie that I could possibly list them all.

Titles like Zool 2 and Bubba 'n' Stix stand out in the mind because they've only just come and gone, but if I had to compare Pinkie to anything, I would have to delve into Millennium's back catalogue. The

James Pond series of games have delighted gamers the world over with their brilliant mix of platform action and teasing set of puzzles. The best out of the series was, undoubtedly the last one Millennium released.

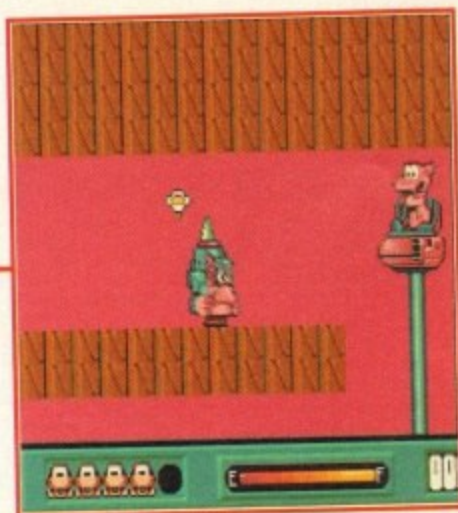
James Pond 3 had better quality graphics than its predecessors and overall was a much more rounded and complete game, mainly due to its unmatched levels of gameplay and addiction

In the past, some of the world's best game characters like Zool, Chuck Rock, Bub & Bob, and James Pond have appeared on the Amiga, but where are today's stars? Zool has gone back to the Nth Dimension, Chuck has rocked off, Bub & Bob are somewhere over the rainbow and James Pond has flipped out! The lack of decent characters is slightly worrying, but I think a solution to rectify this problem has been found. Millennium, a company already successful with the James Pond series of adventures, have invented a brand new platform character and Pinkie is his name. With his home base set on the Planet Purple, Pinkie is small in stature, owns a big heart, a bouncy walk, a huge appetite and perhaps the cheesiest grin you've ever seen in your life. The actual game is a blend of hot and frenzied platform action, plus a good healthy dose of puzzles have been chucked in there for good measure. Millennium are hoping that Pinkie will do the business for them and hopefully become as big as his platform contemporaries.

INTRODUCTION

Pinkie

Yet another cutesy platformer, but is this one a little bit different than the rest? Jonathan Maddock is tickled pink as he enters the surreal egg-collecting world of Millennium's latest platform offering



On his quest Pinkie must try to collect as many flowers as possible while avoiding his enemies

GRAPHICS

The visuals in Millennium's platformer are superb and Pinkie really does look like a cartoon. This is partly down to the traditional animation pastel colour palette which really brings all the game characters to life.

Not surprisingly, Millennium have got plans to take their pink star from the monitor screen and place him on the TV screen in his own animated cartoon.

The main character jumps and prances around the screen and is very well animated, plus there are so many nice animated touches that it's obvious a lot of time and trouble has been spent on creating Pinkie.

The backgrounds differ from level to level and range from snowy wastes to alien worlds (complete with pulsating backdrops). The graphics are so good that Pinkie literally looks like a breath of fresh air in the otherwise dull and stale world of platformers.



85%

STORYLINE

Pinkie makes plenty of happy jaunts to other planets in the solar system with the intent of exploring and meeting other beings. Pinkie's first mission in this, his debut game, is to save the alien dinosaurs from extinction.

This is done by collecting the eggs and keeping them safe in his Pinkie pod. The eggs are yellow with blue spots and are extremely fragile. When the eggs hatch a fully formed

baby dinosaur pops out. The eggs have been placed, unfortunately for Pinkie, in the most precarious of places throughout the galaxy.

If the hero of the game drops an egg it is likely to shatter. Once this happens, the baby dinosaur immediately extends its legs out until they reach the floor and then runs away. These highly mobile eggs cause Pinkie all manner of problems. If Pinkie does manage to collect all the eggs and save the dinosaur race, he will be handsomely rewarded by the King of the Pinkies.

SOUND

The music in Pinkie is pure unadulterated pop and so it should be. The games score will go down in the history books as just another cheesy platform tune, but Millennium have taken the concept of game music a step further.

The Cambridge-based company approached Station 2 Station, a music marketing company responsible for getting Mr Blobby to number two in the charts last Christmas and for working with top pop stars like Right Said Fred, to see whether licensing Pinkie to music would be a good idea.

The brief was not to produce a single from the game music, instead Millennium asked Station 2 Station to produce an original interpretation of a game "score".

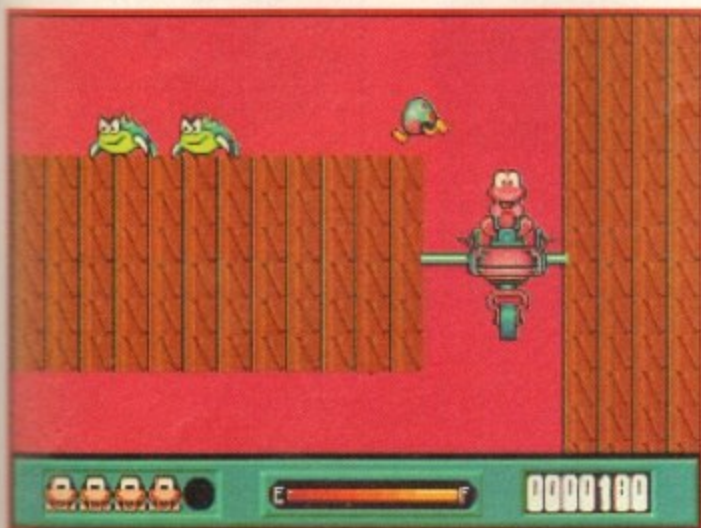
Station 2 Station finished up with a 30-track single entitled "Play-it" and it features the vocal talents of Kelly Smith AKA Little Sister. CD32 owners will have the pleasure of having all 30 mixes of the same single and you, as the listener, will be able to make up your own favourite mix.

A1200 owners will just have to buy the single on its own when it hits the charts!

The sound effects, before I forget, are just standard noises and aren't worth shouting about, but they do the job adequately enough.

80%

Publisher: Millennium
Developer: Data Design
Disks: 2
Price: £25.99
Genre: Cutesy platformer
Hard disk install: No
Control system: Joystick
Supports: A500/A600/A1200/A4000
Recommended: 68000 upwards



Pinkie's pod has more gadgets than the Batmobile and can be used to reach parts of the game that Pinkie wouldn't normally be able to reach!



Hopping off his pod, Pinkie finds one of the highly important dinosaurs eggs



OPINION

83%

Pinkie is a cracking little platformer. It looks beautiful with its pastel coloured graphics, it has a nice and cheesy pop-tastic soundtrack and even the gameplay differs from its competitors as it's heavily puzzle-based. The animation of the characters, including the

hero, is very accomplished and well presented. The end-of-level guardians are especially worth checking out, due to the sheer gargantuan size of them.

Pinkie, as a concept, isn't anything different and doesn't contain any new surprises, but as a game on its own works remarkably well. I don't think I've seen a platformer cuter than this one and I imagine Pinkie,

as a character, will be a huge success. The game is obviously going to appeal to the 11-16 age group, mainly because that's exactly who the game was designed for. Older gamers might want to take a look, but may prefer something with a little more substance.

Pinkie is a harmless little platformer that won't hurt anybody.

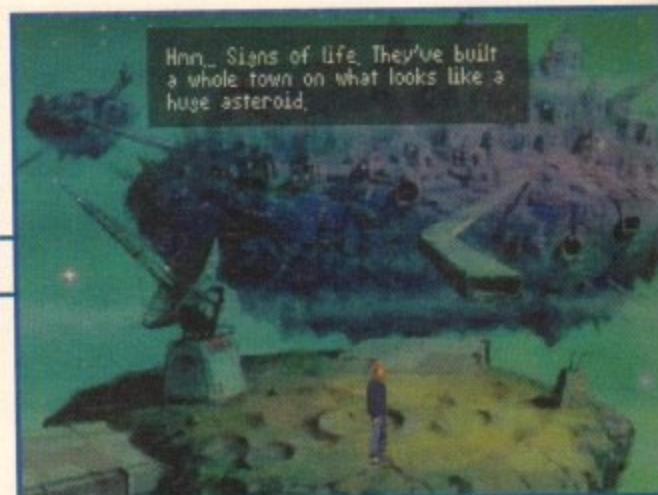
In the past, many companies have attempted to create involving and stylish graphic adventures, with varying degrees of success. These days it takes something a little bit special to make heads turn, but Derby-based Core Design have an impressive track record with games such as Chuck Rock and Heimdall proving especially successful.

INTRODUCTION

Core are confident that Universe will make a major impact on an already crowded marketplace.

Innovative graphic and sound systems have been developed, but the game aims to be more than just a pretty face. There are also a couple of arcade sequences, despite the fact that in the past otherwise excellent games like Operation Stealth have been spoiled by over-tricky arcade sections.

However, the emphasis has clearly been on creating a challenging and atmospheric adventure that can be easily controlled via an uncomplicated system of user-friendly icons.



In the beginning there was Boris, and he stood all alone on an asteroid in a strange dimension

Universe

STORYLINE

Boris is just a normal kid living in a typical suburban neighbourhood. His dad probably works for a merchant banking firm in the town centre, and his mum does part time work at a local estate agents.

Boris has a sister called Jenny, who is about five years younger than him and likes Neighbours, Just Seventeen and Take That.

Boris is quite keen on computing, and he's just invested in a brand spanking new 35-bit Excellence Engine which knocks the socks off his best mate's 986PC XDAT VHS thingy.

One winter's day, Boris is happily tinkering away in his bedroom when his mother, concerned that her beloved son is devoting too much time to an expensive piece of silicon and plastic, decides to send him on an errand – taking some mail to his Uncle George's house.

Boris grudgingly toddles his way through the centre of Ashby-de-la-Zouch on his bike, despite the recent snowfall, dodging Christmas shoppers wherever possible and colliding with them wherever not.

Along the way he ponders some fundamental questions of life, such as "What's in the envelope?", "Why does dropped toast always land buttered side down?" and "Who created Eamon Holmes?" Eventually, having answered two of these questions, he reaches Uncle George's house.

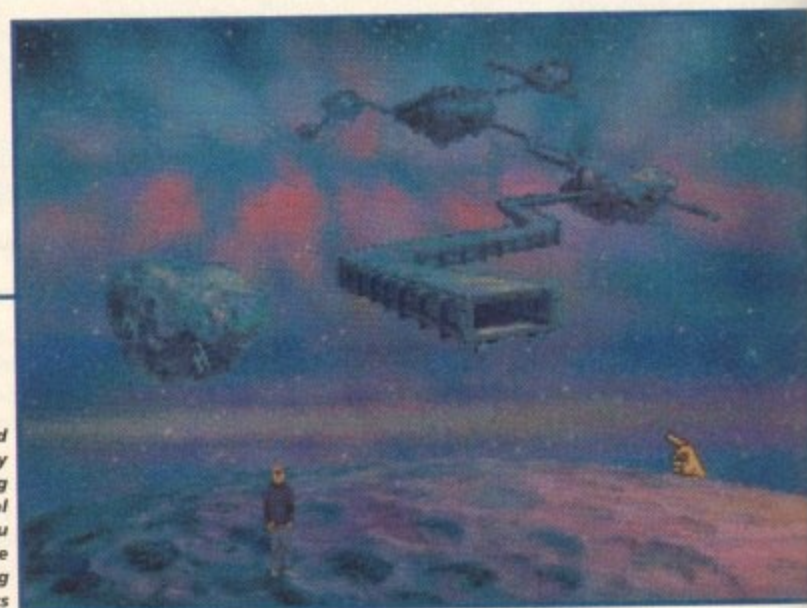
Uncle George is slightly wacky and eccentric, and among all manner of junk in his house, Boris finds a bizarre machine. Foolishly, he begins messing and promptly gets zapped into another dimension.

Some might say it serves him right, but regardless of whether it does or not it is your task to return Boris to his home. Having the opportunity to save the universe along the way is really an added bonus.

Much was expected of this graphical adventure from the creators of Curse of Enchantia. Dave Cusick finds out if it lives up to its billing



A spinning asteroid passes silently by before shooting off into the eternal night, leaving you gaping at the outstanding graphics



GRAPHICS

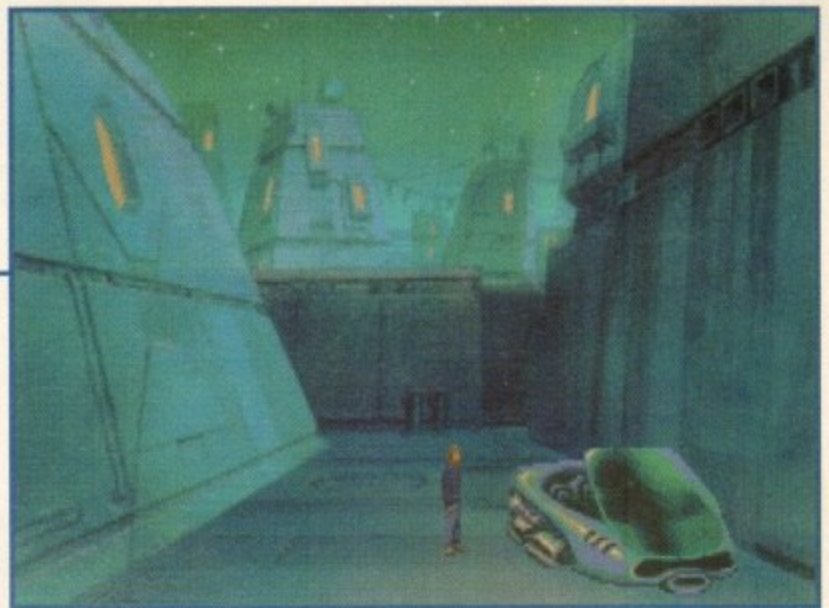
It's hard not to be impressed by the beautiful moody backdrops which were lovingly crafted by top-quality artists and then scanned into the computer.

There is some very effective use of colour and in places the scenery is nothing short of spectacular. Take a look at the screenshots and you'll appreciate just how stunning the effect can be.

Core says that Universe features a revolutionary new graphics system which allows up to 256 colours on screen, even on an A500. The desire to see new locations in all their graphical splendour is probably one of the reasons that Universe holds the attention so well.

Our hero Boris has quite a range of moves available to him, and the animation throughout is extremely lifelike and smooth. He shrinks as he moves further away from the front of the screen, but loses little detail in doing so.

91%



I wouldn't mind a vehicle like that one, except that the insurance premiums could be worryingly high



The intelligently designed icon panel means Universe is easy to get into but strangely addictive



A perplexed Boris gazes longingly up at the light spilling from an out-of-reach window

FLASHBACK

The game which really started the trend for point-and-click adventures was the ageing Monkey Island, but to be honest I reckon Universe has a more effective control system and is streets ahead in terms of presentation.

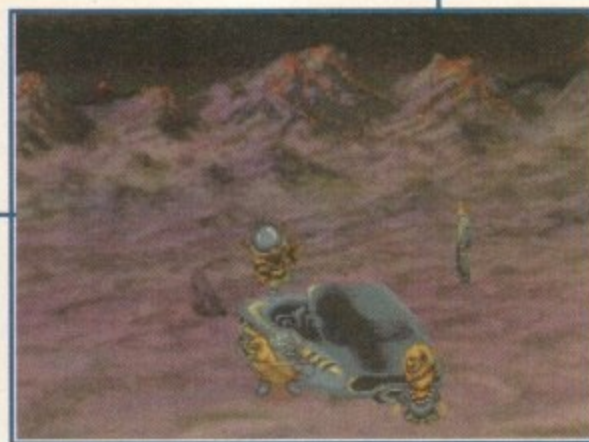
Monkey Island 2 was a great game but some of the puzzles could be a little strange and the game was supplied on a huge number of disks which meant plenty of swapping.

A fairer comparison might be Beneath A Steel Sky, a far more recent release with a similar science-fiction setting. In this you play Robert Foster, who finds himself in Union City. You must discover why you are there and what you must do now that you are.

It features a unique Virtual Theatre system developed by programmers Revolution Software, meaning that other people in the game go about their day-to-day business normally, so there is a feeling that you are part of a real living world.



This luxurious kitchen proves to be something of a deathtrap unless you can make a quick escape



Blimey, you can't leave a car anywhere these days without a band of hooligans appearing on the scene



Hang on a minute, wasn't he in "The Never Ending Story"?

Publisher: Core Design
Developer: in-house
Disks: 5
Price: £34.95
Genre: Adventure
Hard Disk Install: No
Control System: Mouse
Supports: A500/A600/A1200/A4000
Recommended: 80000 upwards

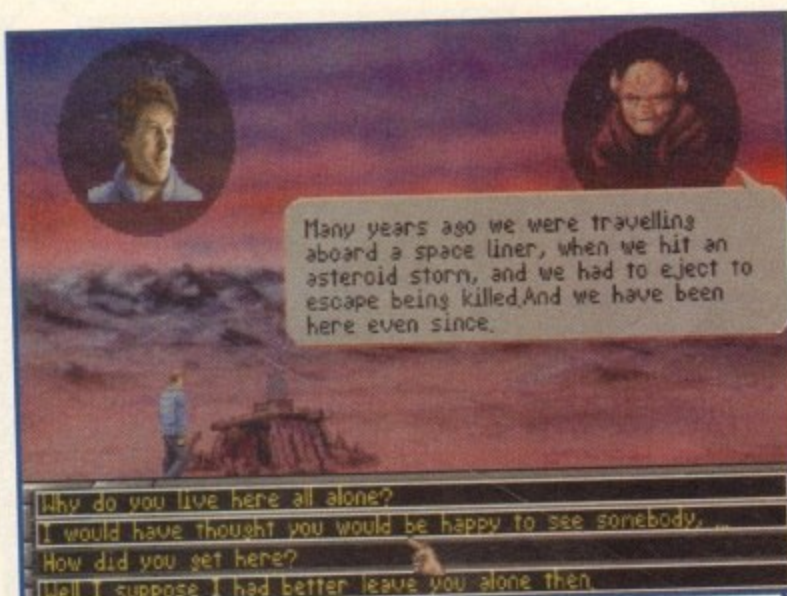
ADDITIONAL INFO

Our universe is thought to be somewhere between 10 and 20 billion years old. At present the most distant detected galaxies are thought to be around 10 billion light years away, but scientists believe that the universe is expanding constantly.

The speed at which galaxies are moving away from us is thought to be between 30 and 60 miles per second for every million parsecs between them and the earth.

Apparently though, Boris is no longer in our universe – he's in an anti-universe called Paralela. Because of this, although Boris does indeed have to save the universe, there is a spark of originality in that it's not actually our universe he's saving.

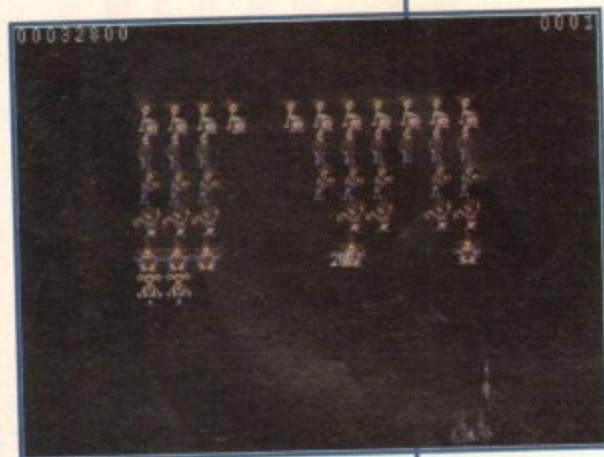
From the brief extracts from the Encyclopaedia Paralela supplied with the game, Paralela is very different from our universe. All of this suggests that either Uncle George was one of the greatest scientists who ever lived, or that he was a crazed fool meddling with forces far beyond his control.



A space hermit reveals all via the simple conversation system



Welcome to Wheelworld, which appears to be to Universe what Mos Eisley was to Star Wars



A golden oldie springs up, making a pleasant change from point-and-click frolics



Is this Wheelworld, or a seedier part of Stockport on a Saturday night?

SOUND

In its early stages, Universe boasts the sort of ambient in-game soundtrack that the Orb would be proud of. The effect of this is to conjure up a marvellous all-pervasive atmosphere of supreme calmness and cosmic loneliness, enhancing the gaming experience no end.

The title theme is suitably imposing and sets the scene quite nicely. It has a familiar-sounding air about it without sounding predictable or unoriginal.

In fact, throughout the game the music is of a very high standard. If you do find yourself reaching for the volume control, it will most likely be to turn it up.

Core says that during play the music adapts to the mood of the game in a manner similar only to the LucasArts IMuse system, making it something of a novelty on the Amiga.

There aren't really many sound effects, but they're not missed due to the presence of such a feast of sonic delight.

82%

OPINION 85%

Without doubt, Universe is one of the games of the year so far. It has class in copious amounts and is presented outstandingly well.

The combined icon and text control system is intuitive and friendly, making this a simple game to get to grips with and allowing for maximum user enjoyment.

While it would appear that Universe is smaller than, for instance, Beneath a Steel Sky, with regards to the number of disks, there is certainly plenty of depth and challenge.

Some of the puzzles encountered are completely mystifying, until suddenly the solution dawns on you and you wonder why on earth you didn't realise what to do a little earlier on.

As with all good adventure games, there will probably be times when you turn the computer off in frustration, only to return later when inspiration strikes,

whereupon you will play the game for hours until you next become badly stuck. The difficulty level makes success all the more satisfying.

The smattering of humour which is liberally sprinkled throughout the game adds considerably to the experience. While Universe is not a comedy adventure in the mould of Leisure Suit Larry or even the Monkey Island games, it is good to see that it does not take itself too seriously.

Also, adventure purists will be happy that the occasional arcade sections are surprisingly well implemented. Another nice touch is that in a bar on Wheelworld, the arcade machines feature extremely good versions of timeless classics.

It is a shame that Universe is not hard drive installable since this would have made playing it an even more pleasurable experience, but to be fair the designers have tried to eliminate disk swapping wherever possible and loading times are kept to a bare minimum.

Universe is the type of adventure game that will be enjoyed by even those normally disinterested in the genre, and must be highly recommended.



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- U033 Education 1 Learn German
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- U098 Database Master Comprehensive AMOS database
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- D177 Star Trek Animations Agatron no.17 More like above. Good
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- D287 Calendar Girls Slideshow
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- M151 Moti-8 More catchy tunes
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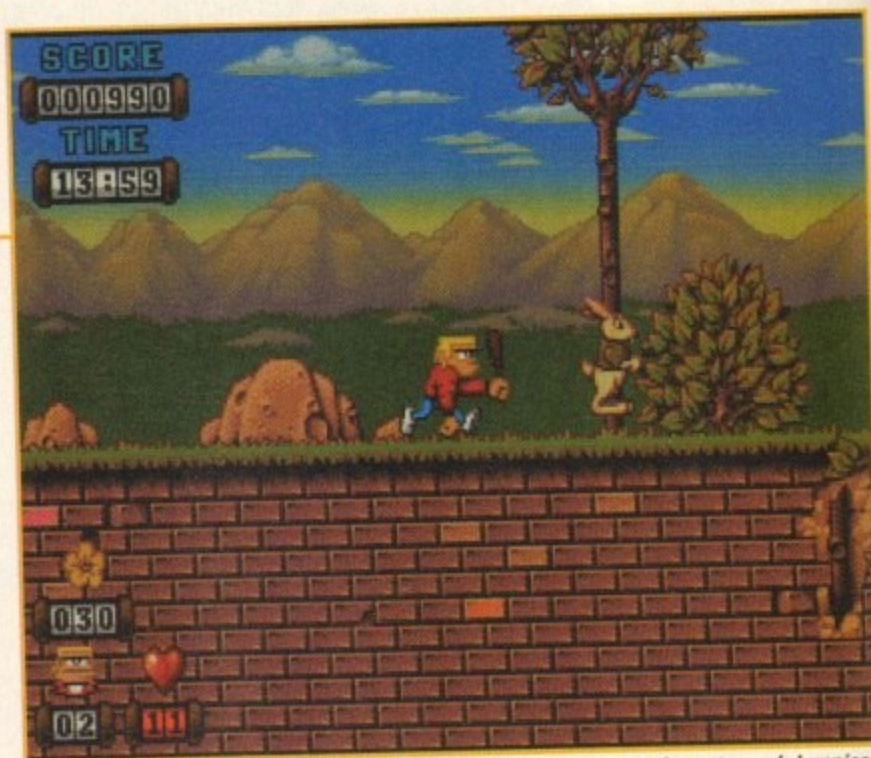
Grudgingly, I put the disk into the drive dreading yet another dull platformer. But pushing all my reviewer's cynicism to one side though, I pledged to give it a fair trial. And then a strange thing happened, I was actually having fun. In fact it's the only thing that's brought a smile to my post-holiday depressed face all week!

Granted, Kid Chaos is another platformer, but Wales-based software house, Magnetic Fields, have really done something to add sparkle to a tired-out old formula.

INTRODUCTION

Chaos often breeds life, when order breeds habit

The Education of Henry Adams



Mindless violence towards bunnies - makes a refreshing change

ADDITIONAL INFO

The story of Kid Chaos relies on the futuristic image that man will be able to travel backwards and forwards in time (i.e. scientists from the 21st century travel back to the stone age to kidnap Kid Chaos).

Many theories have been pushed forward on the subject, making it a topic rich in opportunity to stretch the imagination.

With many explorations into space having been made, things that didn't even seem vague possibilities are now reality.

Those born at the turn of the century would have merely laughed at the thought of sending one man and his dog into space, but then in 1957 the first dog was sent orbiting around the Earth to determine the effect of weightlessness on animals.

And only a few years later we witnessed the first man landing on the moon. So, what may seem bizarre or impossible to us now may well become a distinct possibility in the future.

In the meantime though, people can only speculate, and images of time travel can still conjure the imagination without the restrictions of reality.

Kid Chaos

Tina Hackett follows the travels of one prehistoric space kid courtesy of Ocean's new platformer, Kid Chaos.



Smash as much of the scenery as possible



GRAPHICS

It probably makes a pleasant change but I'm actually stuck for words. The graphics really are breathtaking and it's hard to sum them up well enough to do them justice.

Layers upon layers of parallax scrolling have been used to create a terrific sense of realism and depth, and updates at the most terrific rate to keep up with the action.

Consoles can disappear up their own cartridge holes because as far as I'm concerned this looks as good, if not better, than some supposedly superior console platformers.

There are many different settings, from Secret Gardens to Toxic Wastelands, and each one looks superb, picking up on a bright, cartoon like feel.

85%



Pig-headed Kid Chaos finds his way around the Toxic Wasteland

STORYLINE

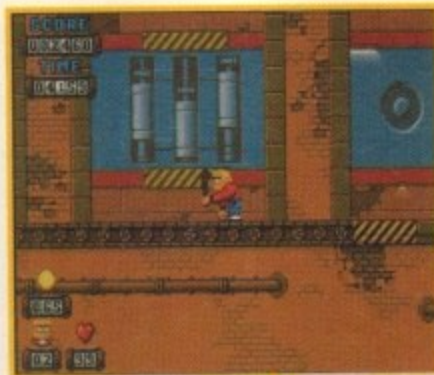
Hmm, a bit dodgy this one but here goes. Kid Chaos, a cave-kid, was kidnapped by evil scientists from the future and transported back to the 21st Century.

They experimented on him and forced him to wear modern clothes – this being the most contrived excuse for his dubious choice in clothing I've ever heard.

The kid, having somewhat of an aversion to being experimented on and having to wear blue slacks, decides to escape.

However, the exits are blocked by force fields but the kid overhears the scientists talking – in true blockbuster movie fashion – and hurrah, by smashing enough scenery this breaks the sources of the force field and unblocks the exits.

He escapes and now it's your job to guide him home.



All kinds of obstacles block the way. Conveyor belts make manoeuvring difficult

SOUND

Yet again brilliant. The fast dance track works well with the style of the game and it even becomes realistically muffled when the character disappears under water.

Sound effects such as when Kid Chaos smashes the scenery works well and gives a great feeling of a real smash-'em-up fest!

82%



FLASHBACK

Take your pick really. There are enough platformers to look back on and compare. Well, I'll start with Zool, the game which sets the standards for other Amiga platformers to follow.

It's a hard act to match but Kid Chaos does come pretty close, although Zool plays a little faster than Kid Chaos and looks slightly prettier as well.

Unlike most platformers though, Kid Chaos is not cute. In fact this is where it derives a great deal of its appeal. Instead of rescuing sweet fluffy bunnies you actually get to beat them out of the way with a club.

And instead of having to play an annoyingly cute sprite you get to play a Billy Idol look-a-like with an attitude for smashing the place up with a baseball bat.



An end-of-level shoot-'em-up against the clock

OPINION 77%

Platformers have acquired somewhat of a reputation of late for unoriginality and it's great to see a game that really does break the mould.

Kid Chaos thankfully lacks any cutesy factors. It's fabulous to play, looks great and the end-of-level games – wow!

The idea behind them is a sort of shoot-'em-up scenario and armed with a gun you have to clear the screen of various objects. On one level you even get to blast cute teddy bears. See, no sympathy for small, furry creatures and it's great!

The gameplay, although following the basic principles of platformers, adds a novel twist in destroying the scenery and cute animals.

Although it may not be politically correct, it means you get to keep your lunch down rather than these sickeningly sweet offerings we get these days.

And just because it's a platformer doesn't mean life is going to be easy. Far from it in fact. It'll take some tricky joystick manoeuvring in some places, which may prove irritating for some but this is also an advantage in that the game will last and last, making it well-worth the asking price.



Kid Chaos bashes the computers to pieces – I know the feeling!

Publisher: Ocean
Developer: Magnetic Fields
Disks: 4
Price: £25.99
Genre: Platformer
Hard disk install: Yes
Control system: Joystick
Supports: A500/A600/A1200/A4000
Recommended: 6800 upwards

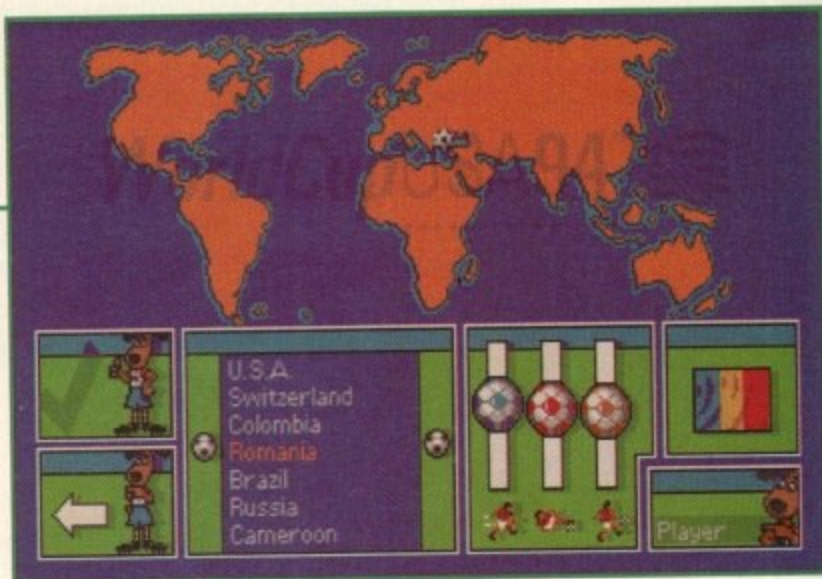


The amount of detail makes for a visually superb game

With the many football games released this Summer to tie in with the World Cup, we all looked forward to some impressive new games, but so far there's not been one that's really astounding. So with US Gold releasing this offering, the official World Cup license, it's bound to be good. Or is it?

INTRODUCTION

Nice, fiddly team selection. Customise the game to include teams that didn't qualify.



Tina 'striker' Hackett takes a peek at the latest footy game to hit the shelves courtesy of US Gold.

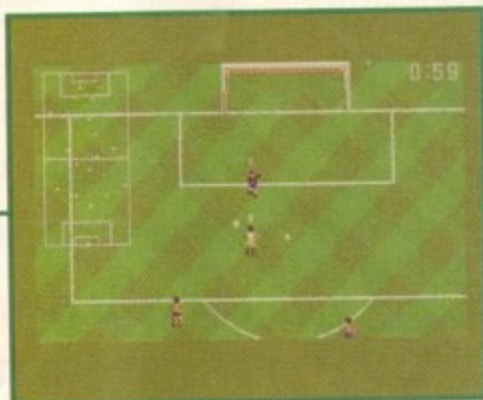
World Cup

SOUND

Yes, it does have some and at first it sounds quite convincing but after a while it does start to sound rather a like being in a train toilet while whizzing through a tunnel. Sorry, but that is the most apt description I can use to describe it.

It does change slightly when you take a shot at goal but somehow it just doesn't seem to create much atmosphere.

32%



Note the ridiculous green borders. They are actually much worse on screen!



Sprite graphics look terrible and seem 'bitty'

GRAPHICS

What a sorry sight this is. Well, first off, we have these enormous green borders around the screen, reducing the actual game to almost half the screen. Why this has happened is anyone's guess, but it looks dreadful and makes it very distracting.

And then we have the actual sprite size which give the impression of "Oh, we couldn't quite make our minds up whether we wanted small or large sprites, so we've opted for some that aren't really either." They're too small to show any animation and too big to play as well as the tiny Sensible Soccer sprites.

Animated sequences have been used to show the referee and the crowd cheering after a goal, but they don't look particularly effective and slow the proceedings down to a snail's pace.

29%



The animations, such as the crowd, slow the whole thing down

FLASHBACK

Many football games are available now to choose from and this just isn't worth forking out your cash for.

It does have a good range of options but these are available in other games anyway. One different option is to change the 'Glue Factor' - how close the ball stays to your feet when tackling - which works well.

The others though, such as Game speed, weather, and the feature to customise the World Cup match, have all been included in other games which are a darn sight more playable than this tedious effort.

Save your money for Goal or Sensible Soccer. They may be old but they certainly show these new games a thing or two. Or if you really do want a new footy game then I'd still wait...the computer footy games season ain't over yet!



Throw-ins are quite awkward

SIMULATION

To get the idea of how World Cup USA really plays, simply imagine standing in a train toilet while going through a tunnel (for the sound effects), squinting to see only half the action and playing with a Space Hopper rather than a ball. That will be pretty close.

Seriously, it doesn't get much better than this and it is about as far away from the real thing as you can get.

Set-pieces are taken using a method of setting an arc of dots to direct the ball in the required direction. Unfortunately this isn't very effective and is fiddly to do.

Goalkeepers are too easy to beat and the player simply takes his shot and stands there. There's no following it through in case there's a rebound which he could redirect into the goal - incredibly irritating.

A one or two button joystick can be used and even though the moves should be quite simple to carry out, the controls feel unresponsive and clumsy.

62%

USA '94



Penalty practice - and the goalie has passed out with the atrocious graphics!

Publisher: U.S. Gold
Developer: Tierion
Disks: 2
Price: £27.99
Genre: Sports
Hard disk install: Yes
Control system: Joystick
Supports: 1500/1000/11200/14000
Recommended: 8000 upwards



The useless Strip Editor, more fun than the actual game

OPINION 28%

As if all this wasn't bad enough, the game is full of bugs, it crashes and is glitchy - the graphics flicker terribly when two players cross over. The whole thing looks rushed out in time for the World Cup.

There was some hope with all the options available but this was let down by the most ridiculous option screens I've ever seen. They've insisted on using the official dog mascot at every opportunity - just in case we should forget that this is the official merchandise. This all leads to total confusion as you try to differentiate between one dog picture and another.

Incidentally, once you've changed all the variables to suit your game style they don't make that much of a difference anyway. There's even the option to change

the colour of the teams socks. Is this meant to be serious? Does anyone really care what colour socks they have?

I mean anyone with a modicum of common sense would surely have realised and said, "Hey, why don't we concentrate on things that really matter, like gameplay?"

This is what counts after all. Somehow you don't feel in control of the game and there are no impressive moves to carry out.

Most of all, the game is incredibly boring! Even the most appalling football games manage to conjure some excitement especially in two-player mode. But not so in this case. You find yourself wishing for the final whistle and the game does nothing to evoke the competitive spirit.

This really is the spit in the referees whistle - avoid - unless of course you really are a glutton for punishment.

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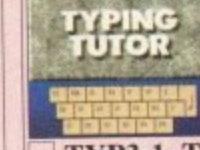
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Platformers seem to have made a bit of a revival of late, with some top quality titles making an appearance. It's finally been acknowledged that these games need a little more to them to make them interesting and Audiogenic seem to be on the right lines with their platformer/puzler, *Bubble and Squeak*.

INTRODUCTION

STORYLINE

Now this is a weird one! Apparently a character called Squeak just happens to drop through a Black Hole and asks you (Bubble) to become hero of the universe.

The land of Groot, Squeak's home, is under a reign of terror of the evil Kat of Nine Tails who has enslaved all the Grooleans and stolen their tails.

Squeak managed to escape and now needs your help to free the Grooleans.



Although the characters are irritatingly cute the game is rather taxing

Bubble Le

Gone are the days when *Bubble and Squeak* was merely the dreaded choice on the School dinner menu, because now it's a tasty new platformer from Audiogenic. Tina Hackett investigates what's cookin'

SOUND

Again it is in keeping with the platformer style using lively, jaunty tunes which fit in with the pace.

Sound effects are in abundance and are of a very high standard. In fact there seems to be a different sound for every action. From enemies sneezing at you to rippling water, they all sound realistic and work well. Background sounds have even been thought out, like birds tweeting.

At first I thought the character's sampled phrases (such as "Wait here" and "Come on") would grate on my nerves but they simply reinforce what is happening in the game.

70%



The underwater effects look and sound brilliant

OPINION 77%

It is quite common for platformers to sometimes fall into the trap of being dull and not very challenging, so it's always nice to play those that involve a good puzzle element too. *Bubble and Squeak* does take a fair bit of working out and it's not a game you can just whiz through.

The puzzles require you to work out how to get the two characters around the levels by using the objects and character's abilities - for example, jumping onto Squeak's back to reach higher levels or operating the lifts with the switches located on different platforms.

This works extremely well and leaves us with a very enjoyable and addictive game.

It may actually be a little too cute for some but this doesn't mean it is an easy game. Ignore the misleading cutesy factors and it is a taxing but very playable title.

The password system is a more than welcome feature (although fiddly to operate) because in some places, if you make a small mistake like falling off a platform, there seems to be no way out other than starting from scratch again.



Find pots around the levels to reach higher platforms



Send him in a spin to fly over gaps

GRAPHICS

Although it looks nothing new and is the usual platformer type thing with cute sprites and bright, cheerful graphics, it does work exceptionally well and is of a very high standard.

The backdrops are detailed, the levels set out well and the special effects such as the lightning and the character becoming darker underwater look brilliant.

On the bonus level, you take charge of an underwater submarine and this is where the graphics really do excel. Using psychedelic, kaleidoscopic patterns to convey the rippling water, the scenery becomes part of the puzzle as you make your way through seaweed and foreground and background obstacles.

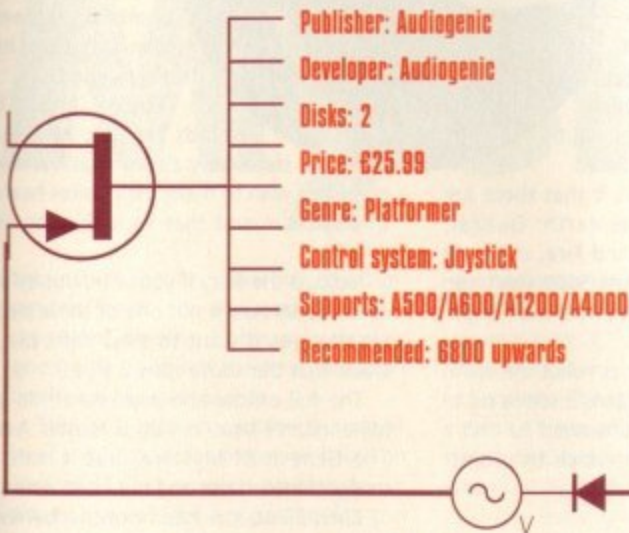
The characters have been nicely animated and add some humorous touches. For example, if Bubble is left standing he will yawn or Squeak will tap his feet.

75%



Storms are brewing and the lightening spectacular but our fearless hero still braves on, even against deadly Rattlesnakes.

and Squeak



Bubble Gum machines give Squeak special powers



FLASHBACK

There are many games in this puzzler/platformer genre but perhaps the closest to Bubble and Squeak is Core Design's Bubba 'N' Stix which involves a similar sort of gameplay.

In this case you have to use a stick character to get around the levels, whereas now it is an alien. Both have an exceptionally high standard of graphics and have many, logical puzzles to solve.

This is more than just another platformer and has many more aspects to the gameplay than usual.

The game has many objectives which keep things very interesting. There are five worlds on the planet Groot and each one has at least five different levels. You also get to progress onto shoot-'em-up levels and bonus games.

On some levels the water will rise and cut off some of the lower levels. If either characters become submerged they will lose a life. This keeps things frantic and the pace exciting.

Gumball machines also play a big part believe it or not, and buying the Bubble Gum for Bubble results in giving him special powers to fly or move as fast, or jump as high as Squeak.

Plenty of attention to detail has been paid, especially in creating themed settings and imaginative sprites, such as the Stardust Caverns with its Red Crawlers and Baseball Ducks who will hit any fire you hit back at them.

This is a very polished game, with a great deal of attention paid to every aspect, providing varied gameplay and detailed graphics. The game has been very nicely put together and although it is another platformer, it is of a high quality and has enough puzzles in it to keep it challenging.



Violence sells. Don't take my word for it, take a look at the facts. Street Fighter 2, Mortal Kombat and Body Blows have all been amazing successes across their own various formats.

The majority of these beat-'em-ups are jam-packed full of nothing more than "cartoon" violence. I mean have you ever been in or seen a brawl where

one of the fighters has leapt 20ft in the air and fired lighting out of the tips of his fingers?

No, of course you haven't because, and here's a thing, computer games aren't real! That's not to say that there isn't a person out there who has spent twenty years training in martial arts, almost as much time studying ancient Chinese legend and is now ready to become the portal for the ancient and

banished five guardians of the earth.

Sounds weird, but it's totally true. Neil Axe is his name and he's about to star in his very own beat-'em-up entitled *MysterX* – but his story goes much deeper than that.

Born in the year of the snake in Bucks, Neil Axe (real name) was first taught karate by his father at the age of five. He spent seven years learning karate-based self defence, before using the next couple of years to widen his skills in two other forms of karate, Wado Ryu and Shotokan.

After dabbling in boxing, Akido and Judo, Neil moved to New Zealand where a five year gap in his martial arts training was filled mainly with bouncing work in night-clubs.

On Neil's return to Britain, more study in several martial arts resulted in Neil's rise to the top of his chosen profession and eventually became known as Master Axe – but his story doesn't stop there.

Oriental legend has it that there are five guardians of the earth: Quazar, Stone, Storm, Aqua and Fire. All were banished from this plane 9000 years ago by man, who felt that he no longer needed their advice.

Since then, chaos has ruled the earth and without the guardians it seems set to continue. The guardians need to find a human host through which to project

themselves into this world once more, but the host is a rare being and must possess a number of special skills.

The skills required are those of the fabled Manimal Warriors: Bull, Dragon, Crane, Leopard, Mantis, Monkey, Phoenix, Snake and Tiger. It will take many years to select the host, as a test is required for the chosen one.

In 1988 Neil Axe led a team of four men (Roger, Michael, Julian and Mr Axe himself) across the United States, sparring in various towns and cycling around 4000 miles from New York to San Diego.

This, as Neil believes, was the test. The guardians had appeared to Neil in dreams before the trip, but it wasn't until he finished his cycling quest (which incidentally raised funds for the Great Ormond Street Hospital) that he finally realised it.

Look I know it sounds far out, but Neil states very clearly that the five guardians wish to make their voices heard through him and that he is the chosen one.

Ridicule the story if you wish, but by all accounts Mr Axe is not one of those people that you'd want to mess with, but I swear that the above story is true.

The full official and impressive title of Millennium's beat-'em-up is *Master Axe: The Genesis of MysterX*, but it isn't a straightforward out and out beat-'em-up.

Chris Elliot, the head honcho behind the creation of the game, explains just how *MysterX* will work.

"The beat-'em-up will be split into four distinct parts: The Academy, Coast to Coast, Trial by Combat and Spirit Struggle. Each part will test the player on a slightly different level, as well as portraying varying types of atmosphere"

The Academy part is essentially a trainer level to enable the player to get friendly with the controls and practice all the moves needed to complete the quest. Spirit Struggle is a

system analysis

This is a true story. Neil Axe, unknown outside of the martial arts world, is about to become big news.

Jonathan Maddock bows politely and takes a look at Millennium's forthcoming beat-'em-up extravaganza.

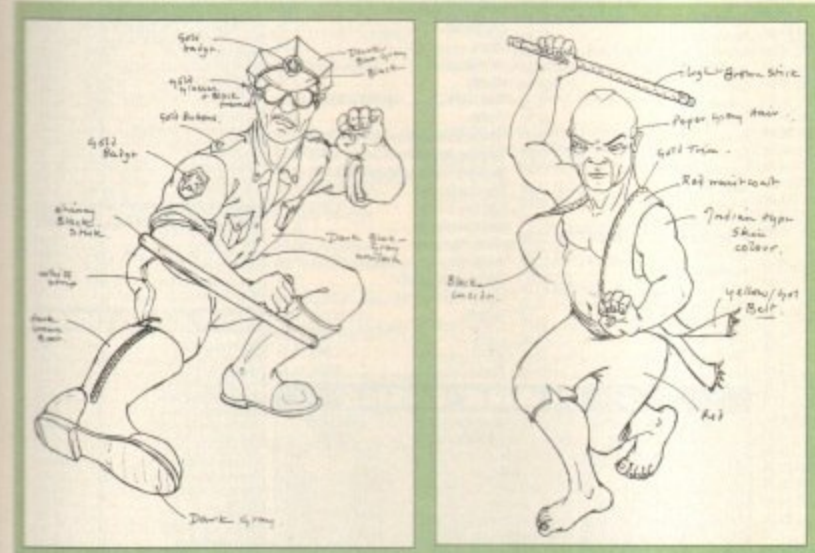


The finished drawings of the enemies that will appear in *Master Axe: The Genesis of MysterX*





- 1 At this stage in the development, only the Neil sprite has been completed and it moves exactly like Master Axe
- 2 In the training centre and just have a look at how much detail has been put into the background
- 3 The Neil sprite whose realistic fighting manoeuvres have been brought to the small screen
- 4 The back streets of New York, just one of the amazing backgrounds in MysterX



The preliminary sketches for Master Axe's opponents include a cop who Neil, Roger, Michael and Julian ran into while cycling across the United States of America



Neil Axe in front of the spectacular view of Mount Rushmore

MysterX

two-player section, whereby the competitors control the dark and light (dark representing evil, light representing good) side of one of the four characters on the spooky spirit plane.

Trial by Combat is another two-player level and is a tournament mode based on Neil and his comrade's adventures in places like Las Vegas, Los Angeles and Maui.

SPRITES

Coast by Coast, which was destined at one time to become the first game in a MysterX series, is a one-player game featuring the previously mentioned cycle trek across the USA.

As well as Neil, Roger, Michael and Julian, one of which you'll be able to control, there are to be eight computer opponents who pop up during various stages.

The game is only in its beginning stages and has a predicted release date of November - therefore only the Neil Axe sprites and a handful of backgrounds are fully complete - but already it's looking rather good.

Neil himself is more than pleased with

the backgrounds. "I've spent months now looking at just about every other beat-'em-up there is," says Master Axe "and all right, I'm biased.

"I don't like special moves and I think that from a martial arts viewpoint, which some of them try to emulate, the movement is ridiculous. Apart from that though, there is a tendency to treat the backgrounds as an afterthought. 'A pier somewhere', 'a city street anywhere', that kind of thing. What Chris and Millennium have done though is just superb."

The A500/600 versions of MysterX will be released first, with the enhanced A1200 and CD32 versions following soon after. The A500/600 version may have slightly less moves than it's more powerful counterparts.

MysterX is going to be that little bit different from the norm. It's not a license, it's based on a real story and a real person.

Neil Axe will be punching and kicking his way on to the Amiga very soon and with plans for his own Hollywood movie and countless merchandising deals, the computer game is only the tip of the iceberg.



I know about or have seen almost every single Amiga game. Although I know at least one game a month will shine like a twinkling star, I also know that the others won't make the grade. Only a few games now genuinely excite me.

Theme Park is one product I'm eagerly looking forward to, the same goes for Ocean's TFX and Inferno, but there is one piece of software I saw a year ago which excited me more than anything I have seen in a long time.

Dreamweb, developed by Creative Reality and published by Empire, is now only a month away from release and about to make Reservoir Dogs look like Play School.

It's an overhead view role-play adventure game and on its menu is bad language for starters, violence as the



Ryan, on a visit to Louis, his dodgy druggy friend, gets himself mugged for his trainers



The start of Ryan's adventure and time for him to tool up and go and kill his first victim

main course with a small side order of sex for good measure. A banquet fit for a King!

Before some of you start writing to Points of View about the state of violent games and today's disaffected youth,

Dreamweb has an adult theme and thus is going to be aimed at the same audience who have seen films like Blade Runner and Akira.

Empire are even going to give the game a voluntary 18 certificate, so

angered parents need not worry – not that they should anyway because their kids need only watch the News at Ten to get their daily dose of violence.

The Dreamweb is an endless dwelling of thought. Its core is occupied by seven

system analysis



Over four years in the making and it comes complete with sex, bad language and violence. Jonathan Maddock desperately searches for something to get those bloodstains, not nearly clean, but really clean...



In Dreamweb there is an element of surprise and Ryan, by not looking over his shoulder has, unfortunately, just been blown away. Game over, man

Dream

Reality bites!

Creative Reality was formed about four years ago and consists of just two people – Neil Dodwell codes while Dave Dew produces all the graphics. The duo have worked on almost every machine and completed about 15 products between them.

Before Dreamweb, Neil and Dave created the wonderful Myth for System 3. The two were also responsible for several older Spectrum games including Nemesis the Warlock and Slaine from 2000AD, plus they've done various conversions onto the consoles.

Both developers have never had any formal training and never had a "proper" job. The two work well as a team and their best work is always something that they have collaborated on.

The Dreamweb concept was first conceived sometime in 1989. Creative Reality, like so many developers, got bored with linear platform games and then got the idea to do a role-play adventure. The name "Dreamweb" was what first started the whole project because Creative Reality thought that it was a powerful film-like name.

The game has been through many ideas and story lines and it's taken just over

CREATIVE REALITY

four years to complete. This in computer game terms is a hell of a long time, but Empire have let the lads have complete freedom to do what they want and firmly believe that Dreamweb is worth waiting for.

In the future, Creative Reality are hoping to do more games using the Dreamweb adventure engine. The duo are planning to use CD technology more and more as it is ideally suited to games like Dreamweb.

controlling powers who influence the thoughts and actions of their hosts on Earth. The Dreamweb is watched over by the keepers. When any of the seven people on Earth die, their controlling power dies too.

A new power emerges which may be good or evil. The overall feeling of the Dreamweb is reflected in people's dreams on Earth. If the Dreamweb tends towards evil, dreams become nightmares.

The evil hosts come into conflict with the good hosts and a battle for status ensues for centuries. The battle swayed both sides, but evil has finally destroyed all the good hosts and it now controls all the dreams. The keepers decided that it was time to appoint a person on Earth to act for them and restore the balance.

HOSTS

You play Ryan, the only person close enough to all seven hosts to destroy them before they reach entropy. When Ryan kills a host their soul is consumed into his body, sending the hero of the adventure into the Dreamweb.

Only when all seven hosts are dead will the Dreamweb's balance be finally restored. This concludes Dreamweb's mind-expanding epic storyline!

The game revolves around intricate object manipulation and Creative Reality are proud of the fact that every object can be examined in minute detail. Objects can hold many other smaller objects which can also be used (i.e. cigarette packets hold cigarettes and so on).

The objects can be picked up and dropped anywhere in the game, unlike most adventures which don't let you drop them. The game keeps track of all



The guardians of the Dreamweb summon Ryan to assassinate the seven evil beings to try and restore the balance between good and bad

this manipulation using complex data structures.

Dreamweb is a graphically huge adventure and as with the programming, it was all done by one person. There are over 4000 frames of animation alone, each frame hand-drawn by Dave Dew. The graphics are heavily stylised and give more than a nod and a wink to the visuals seen in Ridley Scott's Blade Runner.

Dave didn't use any clever techniques such as digitising - everything was drawn with his own fair hand. Most of the graphics were produced using Creative Reality's own adventure editor, but some of the larger sprites and backgrounds were created on Deluxe Paint.

I've seen a 99% complete version of Dreamweb and all Creative Reality need to do is add the ever-changing atmospheric soundtrack, but I can't really fail to be impressed.

I know this is a preview and not a review, but Empire have got a winner on their hands and I will have the wonderful pleasure of reviewing it for you next month. Just dreamy!



Outside of Sparky's bar and there is a babbling drunk standing in the rain. Go inside to gain some important information



First assassination of the day and you have to shoot a rock star while he's indulging himself in a bit of hot sex. What a way to go!



Another evil target has been hunted down and she is about to be put to rest with a bullet in the head

web



Creative Reality consist of just two. Neil Dodwell codes, while Dave Dew handles the graphics for Empire's imminent adventure



The beginning of the game. A guardian on the bridge has been added, but graphically not much has changed from the first initial sketch



Lital Divil has, unfortunately, found one of the many traps in the game and I don't think he looks too happy about it either

system analysis



Down in the pits of hell, Jonathan Maddock grows some horns out of the top of his head, grabs his trident and takes a look at Gremlin's forthcoming CD32-only cartoon extravaganza



Lital Divil



Mutt has found one of the doors which lead to one of the game's 50 or so puzzle rooms

Over the last few years the term "interactive cartoon" has slowly translated into "unplayable game." This is the fault of the developers who have been putting too much emphasis on the graphics and sound and forgetting about what really counts, the playability.

The first interactive cartoons on the Amiga were the Dragon's Lair and Space Ace series of games. Technically, these software products were outstanding and caused many gamers' jaws to drop.

The down side, due to massive amounts of data involved, was that the games came on far too many disks which meant you were sentenced to a life in swapping hell.

The Sullivan Bluth Studios, famous for motion pictures such as Freddy F.R.O.7, All Dogs Go To Heaven and more recently Thumbelina, handled all

the animation and did a really good job with the products, but they were all sadly lacking in the playability department.

3.5" disks are now becoming slowly defunct and it looks like the computer industry is quickly moving towards the CD format. The CD is able to hold huge amounts of data and some machines like the CD32 even have built-in FMV (Full Motion Video) modules, enabling the user to watch current movies on CD.

This means games like Space Ace will now become more commonplace and with the data storage problem sorted, prominence can now be, at last, put on gameplay.

The Irish division of Gremlin Graphics have been working on a game to fully test the CD32's capabilities in the interactive cartoon department. It's called Lital Divil and has taken four years to complete. Lital Divil's story begins in the



There are several items on sale in the shop and all of them are needed to complete the game. Collect the gold and they will be yours

Underworld and this is where the sands of time trickle eternally through the hour glass of infinity. Thus tomorrow is the same as yesterday and will undoubtedly be the same as the day after.

Time crawls along and only once is the monotony broken. This occurs once a year by a meeting of the Grand Council in the Chamber of the Ancients.

This occasion is where Mutt, the hero

contained within Gremlin's arcade adventure. The first and main one is a 3D maze which Mutt must explore, looking for doors which lead to the second style of game.

Through these door are puzzles or quest rooms and these must be successfully negotiated before Mutt is able to progress further into the maze.

The puzzles range from dealing with huge spiders to playing a fishy game of

Divil

of Lital Divil, currently resides. The Council must decide who will be chosen to go forward into the Overworld, through the labyrinth of Chaos, and bring back the Mystic Pizza of Plenty. Every year, one of the Divils is selected, but as yet none have ever returned from their quests.

Each Divil in turn must reach into the sacred pot and pull out a straw. The one with the shortest must go and find the pizza. When it comes to Mutt's turn, he surprisingly gets stuck with the short straw.

After much celebrating from the other Divils and congratulations received from the Grand Councillor, Mutt is shoved towards the entrance to the Labyrinth.

Despite the terrible inscriptions outside, Mutt makes a start on his treacherous journey - this is where you take control of Lital Divil.

There are two distinct styles of game

"Simon says" with a wicked mermaid. Some of the puzzles are relatively straightforward, while some will have you racking your brains - but nothing that you won't be able to finally get past.

The 3D maze is littered with traps of all shapes and sizes. Each one, if sprung, takes some health-force away from Mutt. To restore this rapidly decreasing energy bar, Mutt can pick up loads of food which can be found dotted around the levels.

The most outstanding features of Lital Divil are the graphics. Apart from Microcosm, Gremlin's adventure is the best-looking game yet to appear on the CD32. The sprites and characters look set to rival anything that Sullivan Bluth have done or Disney themselves for that matter.

The backgrounds are exquisite and even though they are highly detailed, they don't detract anything away from



you lose a life. The whole game is topped off with a full cinematic CD score, giving Lital Divil just the right amount of atmosphere in all the right places. To go along with the various comedy moments, there is a full compliment of "wacky" cartoon-style sound effects.

As mentioned before, Lital Divil has been four years in the making and from what I've seen it's going to be well worth waiting for. With its gorgeous graphics, superb soundtrack and the fact that it's playable, these make the perfect ingredients for a classic game.

Gremlin's spectacular CD32 game looks like it will become the first product to actually be called an "interactive cartoon" and hopefully this will entice more software publishers to use the CD32 to it's full capacity.

the character sprites. The animation is top-notch stuff and it's no wonder that Gremlin Ireland have taken so long over Lital Divil.

Animation isn't the quickest thing to do in the world and the creators have taken care of every little detail, including drawing every single wall in the 3D maze individually.

Although the graphics are undoubtedly the game's best feature, Lital Divil does have a whole host of others, like the fact that it is riddled with humour all the way through the adventure.

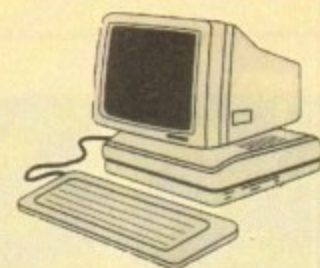
The top quality gags look as though they've been nicked from an episode of Bugs Bunny. Mutt gets stabbed by spikes, falls down holes and fire shoots out of the floor and burns our hapless hero, but he still gives that shake of his cartoon head, jumps up and gets on with his perilous quest - that is until his life-force runs out and



In one of the puzzle rooms and Mutt must make his way across the swamp by hopping on the stepping stones

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Hero Quest 2 - Legacy of Sorasil



Gremlin's sequel to the classic 3D isometric adventure, released back in May, was warmly received by both the press and the general public. This CD32 version of the game isn't that much different from the original Hero Quest 2. The only noticeable change is a brand spanking new CD soundtrack to tantalise your ear drums while you wander around the fabled land of Rhia.

You can either use a mouse or the CD32 joystick for controlling your party of four heroes. Both are equally good, although the extra buttons on the joystick tend to make things slightly easier.

The game is relatively easy to play, but first-time adventurers might need to practise before attempting to complete the quest. Hero Quest 2 is divided into turns. You move your characters first then the Forces of Darkness respond.

Each of your characters moves in order and there are a range of options each can carry out. All have an allocation of 20 action points per turn, to be used in whichever way you require - remembering that the more complex the action the more points it will take to complete.

CD32 owners will be more than happy with Gremlin's superb adventure sequel. The 3D isometric graphics are spot on, the CD sound is a major improvement over the sonics heard in the computer version, plus it's still highly playable and incredibly addictive.

Whether you're using joystick or mouse, the control method is very simple, making the game a lot of fun to play. Even the younger player won't have too many problems with it. Hero Quest 2 will last you an awful long time and it's by no means a game you're going to complete in an afternoon.

If you've got a CD32 I heartily recommend Gremlin's fantasy role-playing sequel.

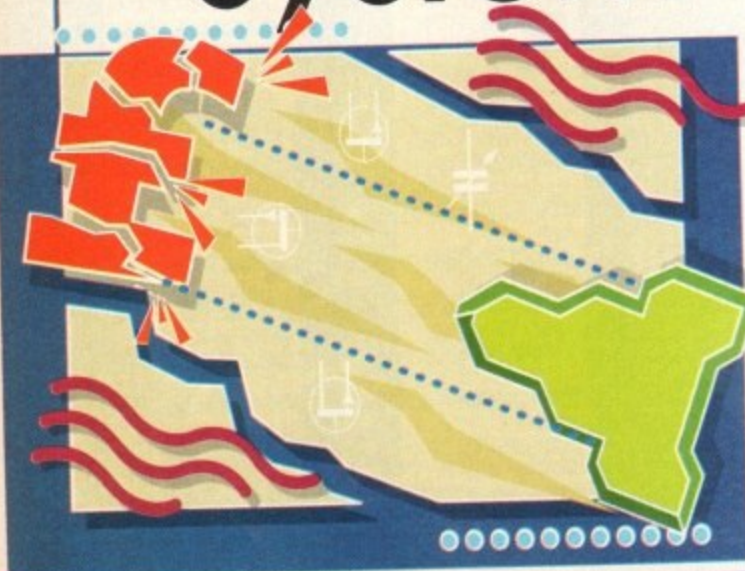
75%

- Publisher: Gremlin
- Developer: In-house
- Disks 1
- Price: £29.99
- Genre: Isometric adventure
- Hard disk install: N/A
- Control system: Control pad
- Supports: CD32
- Recommended: N/A



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Apidya

Some older gamers reading this might remember the first time Apidya raised its shoot-'em-up head. It was heralded, at the time, as one of the best and most original horizontally-scrolling blasters you could get for your Amiga.

Since then, Team 17 have waded into the computer industry wearing a pair of size twelve Doc Martens and brought out a range of classic games including the shoot-'em-up benchmark, Project X.

If Team 17 have the best Amiga blaster sitting in their stables, why have they bought Blue-Byte's Apidya and put it on their budget label for a ridiculously cheap price of £10.99? Er, I don't really know, but that's what Team 17 tend to do from time to time and with a fair amount of success.

Apidya is a five level shoot-'em-up with a distinct insect. You control a "bee" ship (which looks more like a wasp, but there you go) and must hunt down an evil sorcerer called Hexaa who tortured your partner to near death.

The sprites and background graphics are delicately crafted and even in today's era of super high-quality products they look just beautiful. The game boasts the largest ever animated end-of-level guardians, some of which reach to full screens in height and over two screens in length.

Unlike Team 17's Project-X, Apidya features a really good simultaneous two-player mode. The "other" player controls a drone which is able to protect the bee, but its abilities are limited. This is not a bad shoot-'em-up, but it's not brilliant, and whoever reviewed it when it first appeared on the Amiga scene was perhaps a little too enthusiastic. The main problem appears to be that it's just too hard, even with two players

competing. Maybe that's just me being completely rubbish at shoot-'em-ups! For just over a tenner though I shouldn't complain too much because it will keep you entertained for quite a while.

To sum up, Apidya has gorgeous graphics, nice sound, plenty of playability, a touch of addiction, but the difficulty level is set just a tad too high.

67%

- Publisher: Team 17
- Developer: Blue-Byte
- Disks: 2
- Price: £9.99
- Genre: Shoot-'em-up
- Hard disk install: N/A
- Control system: Joystick
- Supports: A500/A600/A1200
- Recommended: 0000



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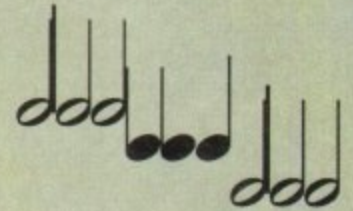
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Buying, selling or just browsing, all the best Amiga bargains in our dedicated second hand section

HOW TO Sample

The law of

Before you even load up your sampling package to record your sounds for your musical masterpiece, you need to know all about the law of sampling, otherwise you could find yourself in a lot of trouble.

Sampling has become a massive bone of contention throughout the music industry, and within the last few years it has become more and more popular due to professional sampling machines becoming more affordable.

Is sampling a legitimate source of new sounds or is it quite simply out and out theft? This particular argument will rage on until the opposing parties are blue in the face, but as far as the future goes, sampling is here to stay.

When you create a piece of music, you

automatically have the copyright, but only if you write it down or record it. Even if someone else records your piece of music, you are still the author and thus have exclusive rights to the piece.

The important thing is proving that you came up with the music first. There are two things you can do which will satisfy any court of law. You can either post a copy of the work to yourself by recorded delivery, so the postmark can act as proof of the date. The other option is to leave a copy with your bank and get an official receipt stating the date of the deposit.

RECORDS

That's the law dealt with, but the art of sampling has raised many legal problems. If you want to sample from a record, just how much can you get away with? An infringement only occurs if a "substantial part" of a piece of work has been copied or sampled.

The actual Copyright act doesn't state exactly how much this is, but it's as much the quality of the sample as the actual quantity. A very short musical piece can still

constitute a substantial part, if it's distinctive enough. The four copyrighted notes of the Channel Four television theme tune is just one example out of many.

If you sample any part of any copyrighted work, no matter how small, you risk getting caught. You may believe that what you've sampled is from a relatively obscure source, but there will always be someone

somewhere who might recognise it.

Even if you distort the sample, so that it's totally different from the original, there might be that certain somebody - maybe even the original artist - who will know the sound and sue you because you've changed it from its original form. Your case probably wouldn't even make it to a court of law, but you still could face a large



Boot up your sampling package, plug in your leads and let the sounds play. Welcome to the exciting law-breaking world of sampling...

Sample samples

Creativity and imagination is the key when it comes to sampling something. That small vocal snippet or musical stab can either make or break a record. Here, in no particular order, is my top ten favourite sampling music moments.

Artist	Track	Sample in question
1. The Prodigy	Charly	The sample that flew up from the underground and spawned a rave generation
2. Orbital	Halcyon + On + On	The vocal off "A Fine Day" by Opus 3...backwards!
3. Credit to the Nation	Call It What You Want	The beginning riff of Nirvana's "Smells Like Teen Spirit" fused into rap record that virtually assured a chart hit
4. The Orb	Little Fluffy Clouds	Rickie Lee Jones babbling on about the sky and thus giving ambience to the masses
5. Utah Saints	What Can U Do For Me	The sampling of Annie Lennox, a master-stroke that turned the track into a massive chart smash
6. The Orb	Majestic (Millwall Mix)	Genius snippets from the cult TV comedy series, Monty Python's Flying Circus
7. Senseless Things	Homophobic Asshole	The girl screaming "you want it" from the film Hellraiser, edited especially for the radio
8. Ned's Atomic Dustbin	Suave and Suffocated	Dennis Hopper's mad ranting and raving from Apocalypse Now
9. Carter USM	Falling On A Bruise	Michael Caine's classic "Know what I mean" speech from the film Alfie
10. Public Enemy	Hazy Shade of Criminal	The words "Rebel Base" as uttered by Darth Vader, take on a whole new meaning

Sampling

out-of-court settlement. There are four safe options to stop you getting into trouble with your samples. First, go through the proper channels and get your samples cleared. If you've got a sample you're not sure about, you can try to get it cleared by getting in contact with the Mechanical Copyright Protection Society.

Check with the MCPS whether you need a licence and how much it will cost. If the publisher of the sample in question is not associated with the MCPS, then you must get in contact with the publisher yourself and get request clearance. Payment for the use of a sample may be a lump sum or a royalty on each recording sold.

The second option is to create your own samples. This technique is now being used by a number of artists and it involves the creation of 'fake' samples by intentionally adding noise to your own sounds. Take a drum track for instance and add some background noise and 'hey presto,' you've created your own exclusive sound.

TROUBLE

A third alternative is that if you believe the sample you want to use is questionable and you think you'll get in trouble for using it, then simply don't use it! I know it might totally wreck your original inspirational idea, but it's a lot better than getting sued.

Dance band, the Utah Saints had to get permission to use samples of Annie Lennox and Kate Bush, and they say that had the original artists not liked the use of their samples, then they simply wouldn't have released the records.

The fourth and final option is to get your samples from a reputable specialist sample CD company like Time + Space or AMG. These discs provide a wealth of noises, beats and effects in many different musical styles for full and part-time musicians, and are becoming more and more popular.

The convenience of the CDs are heaven-sent and all the sounds are free to use as often and as much as you like. They cost around £50 each which to the amateur musician might sound a lot of cash, but they are invaluable because you'll end up paying a lot more if you get caught sampling someone else.

As mentioned at the start, sampling is here to stay whether people have a problem with it legally or morally, but one thing for sure, artists and musicians are using it more and much more creatively than ever before.

Sampling looks relatively easy, maybe because it is, but there are certain things that you should know that will really improve the standard of your samples. Here is a brief, but useful set of hints and tips for would-be

Now!

...that's what I call Sampling!



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samplers. The first tip might sound incredibly stupid to many of you, but for the beginner always read the manual from cover to cover. It's an obvious point, but there are so many people who by not reading the manual miss an important feature that they might benefit by.

RATES

Try experimenting with sample rates. You don't always have to go for the highest quality frequency, you can always get some really dirty effect by using a much lower rate - plus it saves on a lot of disk space.

The best sampling rates are between 15k up to 28k, because this tends to get rid of all the top and bass sounds and leaves you with a nice 'middle' sound.

Always, and I mean always, make sure that your loop points are joined at around the same point. Failure to do this normally leaves you with a click sound as the sound loops, making for messy and amateurish samples.

It can be useful to shift the sample loop

points about, especially where percussion is concerned, because this can sometimes provide you with a new feel in your beat.

Try using short samples rather than long, as this leaves you a lot more scope for experimentation, which of course is what sampling is all about.

Don't be too fiddly when it comes to tuning the sample. Try and get friends to listen to the noise because it might not need much altering as different people's ears have different perceptions of pitch.

Don't spend too much time on any sample, apart from the ones that you're definitely going to use in your musical masterpiece, because this just wastes unnecessary time.

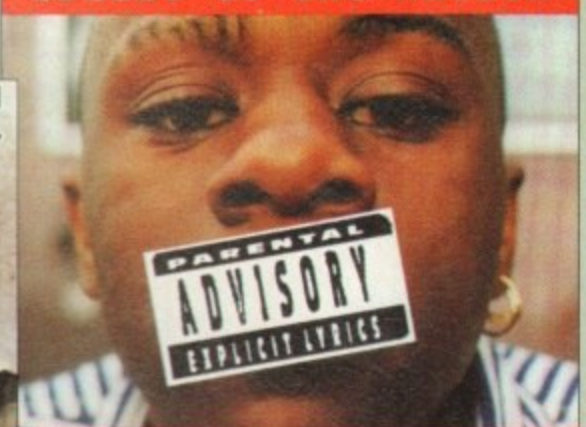
One of the most important tips I can give is to always make sure that you save your work at least every ten minutes. Crashes by your computer can cause so much hassle and stress that this tip should never be forgotten.

When saving your work, make sure you place your samples in an organised library

Looking for that elusive sample that'll bring you chart success?

Jonathan Maddock guides you around the sampling laws and tells you how to get better quality samples.

credit to the nation



take dis

where they can be easily and quickly found when you need them. This will save a lot of time in the long-run.

The last thing I can really say is to always experiment with your samples. You never know, one quick reverse of a sample and a whole hit record could just be around the corner. Happy sampling!

Useful Addresses

Mechanical Copyright Protection Society Ltd
Elgar House, 41 Streatham High Road, Streatham, London SW16 1ER
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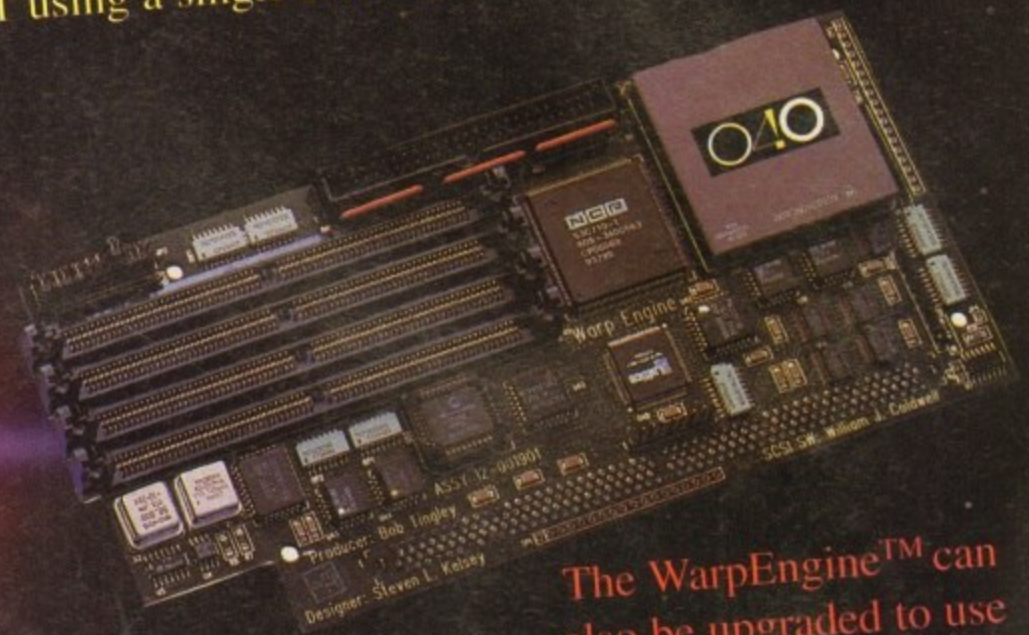
Features	WarpEngine	GVP-040/40	X-Calibur	FastLane	4091	DKB3128
28MHz, 33MHz, 40MHz Versions	YES	NO	NO	NO	NO	NO
28MHz Upgradable to 33 or 40MHz	YES	NO	NO	NO	NO	NO
Expandable onboard to 128Megabytes	YES	NO	YES	YES	NO	YES
Built in SCSI-2 Fast Hard Disk Controller	YES	NO	NO	YES	YES	NO
Uses Industry Standard Amiga SIMM Modules	YES	NO	YES?	NO	NO	YES
Uses any Combination of SIMMs	YES	NO	NO	NO	NO	YES
Allows use of the Memory from the Amiga	YES	NO	YES	NO	NO	YES
Uses a Zorro III slot	NO	NO	NO	YES	YES	YES
Memory Speed Much Faster than Amiga Ram	YES	YES	YES	NO	NO	NO
Works in Amiga 3000	YES	YES?	NO	NO	NO	Yes
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The first two parts of this series looked at most of the Amiga hardware and software you need to add titles and graphics to your videos and grab images from them.

But what about the video equipment itself – the cameras, VCRs, sound recording and other equipment you'll need for capturing an event, and the additional Amiga add-ons you'll need to edit your raw source material. That's where we're headed this month.

Obviously, you're going to need a video camera so that you can record your own original material. The next time you walk down the main street in any major town, or you go to a shopping centre, take a look in some of the specialist electronics shops (Dixons, Currys, and the like).

You'll see a number of video cameras on display, in a wide range of shapes, sizes and prices, all with labels pointing out their latest whizz-bang features.

But what do you really need in a camera? Is fuzzy logic or built-in captioning a necessity? In most cases I would think not, but it isn't my place to tell you whether a particular feature is necessary for your purposes. I'd rather let you know about those you'll actually need – everything else is icing on the cake.

The first thing you should decide is what video format you want to use. For many people this will mean choosing either VHS or S-VHS, though some people will prefer Video8 or Hi-8. Ultimately, which system you choose depends on several factors.

Your main concern will probably be image

quality. If this is the case, then S-VHS or Hi-8 should be your choice as each offers visibly superior quality over their VHS or Video8 counterparts and, as a consequence, S-VHS and Video8 formats are more expensive.

The type of genlock and digitiser you own (or plan to own) also has a bearing on the choice of format, as genlocks or digitisers are capable of accepting the more sophisticated Y/C signals from S-VHS and Hi-8 machines.

If you're planning on using your camcorder as an editing source, make sure it can be controlled externally via a Control-L port (aka LANC), because this is what your Amiga will interface to (via an appropriate editing package) to gain control over the camcorder's play and pause functions so that the appropriate video clips can be recalled as required.

ZOOM

Try to get a camera with a reasonable zoom lens, and macro too, so that you have more choice in the shots you can take. If the zoom can also be operated manually so much the better, because the motors which drive the zoom can quickly drain a battery during frequent use.

Speaking of batteries, get a few spares – they might be expensive, but there are times when a spare battery would have allowed you to get those brilliant shots you just missed when the power ran out.

Make sure your camera has a mains adaptor too, because if you power the camera from the mains it's unlikely you're

Lights,

The video camera and its counterparts are the all-important aspects of a video production. Gary Whiteley shows you what you need and how to use them



Make the investment in a high quality VCR now instead of later – think about the long term wherever affordable



The mini cams are highly portable and easy to use, but many feature restricted automated functions with no manual control

The out-takes

To edit video you need at least one video source (which could be a camcorder or a VCR) and a VCR to record onto. The record VCR should be capable of accurate frame positioning – the more accurate the better.

Again, the choice of VCR format is up to you, and it doesn't necessarily have to be the same as the format of the video source, as long as they can be connected together successfully. For instance, you could use a Hi-8 camcorder and an S-VHS VCR, since both use Y/C video signals.

One important point to note is that the VCR must, like the camcorder, be able to be controlled externally – for instance via infra red remote control – because this control will be used during editing.

But you can't just connect the video decks to the Amiga and start editing. You'll need

going to run out of juice at a critical time.

There are other things you'll need to go with your camera, like a good fluid-head tripod and maybe a shoulder-mount, but go and buy a specialist video magazine and take it from there.

For sound recording, try to find a camera which will let you plug an external microphone in because, let's face it, there's no way that the built-in camera mic can possibly cope with everything that's thrown at it.

Try recording an interview on a windy day using only a camera mic and you'll hear why professional camera crews usually use a separate mic (and mic operator).

There's no way that a camera mic can capture just the sound of the interviewee

and filter out the wind noise, even if you stick a woolly sock over it!

One further point. If you can, buy a camera which allows you to control the volume level manually as well as automatically, and make sure you learn how to use this feature.

Otherwise you'll fall foul of the built-in AGC (Automatic Gain Control), which tries its best to keep the recording level constant at the expense of the sound itself.

For instance, if you were recording an interview and a lorry drove past or a noisy aeroplane flew over, then the AGC would reduce the recording level to take into account the lorry or plane.

The result would be that the interviewee's recorded voice would drop in proportion to the overall drop in recording

an interface and control software of one kind or another, and the cost of such things ranges from several hundred pounds to several thousand, depending on the level you wish to edit at.

In most cases home users won't be doing A/B or 3-machine editing, concentrating instead on simple cutting from source to recorder and genlocking graphics and titles, so one of the cheaper packages would probably suffice.

Two-machine editing can't add wipes and fades between pictures, but it can let you cut out all the rubbish from your source tapes, add graphics and music and assemble a coherent program from a series of individual clips.

This is probably a satisfactory compromise for those birthday, holiday and other home videos which won't ever be seen by anyone but you, your close friends and family.

There are a couple of low-cost edit controllers on the market – Gold Disk's Video Director is well under £200, likewise Scala's Echo EE100 (which also requires ScalaMM300 and a fairly powerful Amiga with a hard drive). Both packages can control a

cameras, action

level, and probably be completely swamped by the louder lorry or plane.

For me, as an ex-sound recordist, AGC is a big pain in the backside and can cause no end of problems.

Therefore it's important that (a) you can control the sound levels manually and (b) you can plug an external microphone in so you can get closer to your subject.

If you are able to mic your main sound source as closely as possible, the relative balance between it and the background sound will be much better – and the resulting recordings will be far more audible.

CONDITIONS

There are times when even the best cameras can't cope properly with the prevailing lighting conditions (unless you've got an infra-red night-vision camera, of course!).

Most modern cameras use CCD devices, which provide better lighting pick-up than the tubes older cameras were based on. Although many cameras have lighting gain switches to boost the brightness of a low-light image, this boosting also enhances the inherent noise in the image, making it appear more grainy.

The solution is to add extra lighting, where circumstances allow, so that the picture quality remains as high as possible. It isn't always necessary to buy specialised lights though, because depending on where, and

Make sure to choose a camera that suits your particular requirements



what you are shooting it might be possible to use lighting which is at hand. For instance, use an Anglepoise or table lamp to improve the lighting, switch on the room lights, or even just use a sheet of newspaper as a reflector to bounce some daylight onto a subject. There are lots of little things you can

do to improve the lighting, but there are also times when proper lighting is an absolute must, whether for practical or artistic purposes.

If you cannot hire lights (like most video equipment, lights are often available for hire locally if you make a few enquiries) then you'll have to buy some.

Good lights cost a lot of money, so before you take the plunge take a trip to a large hardware store and see what kind of halogen lamps they have on offer.

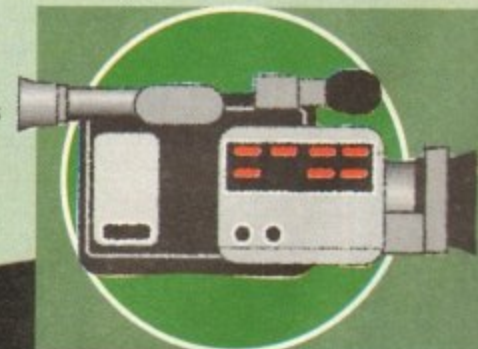
I say halogen because they provide a lot of light while being compact in size, and you might decide that to save money you can improvise a set of lights for all but those special occasions when it wouldn't do to look like you're using makeshift lighting.

But for home shooting, animation or what have you, such lighting will usually suffice. Always remember that electricity can be deadly, and if you're not sure what you're doing, find someone who does who can either advise you or fix the lights up for you.

Costs

There's not much I can tell you here except that good video equipment doesn't come cheap and there's seldom such a thing as a bargain when buying edit-capable VCRs and camcorders. If you're buying from scratch, expect to shell out at least £2000 on all the bits and pieces.

Home video Part 2



The Charged coupled Device provides better lighting pick-up when compared to tube-based systems

Control-L camcorder or VCR as source and an infra red-equipped VCR for editing. By defining a series of clips which you wish to copy from the source to the editor, the whole process can be organised fairly simply, if you have the right video equipment.

Obviously, each program has different features and there's no room for reviews here, so you'll have to look elsewhere for more details – and for other editing packages – but as a good start for your research check out Video Director and, if possible, Scala Echo. Other editing solutions include KRP's Video 20 series, VideoPilot 330 and Syntronic's Editman.

Of course, an edit controller isn't strictly necessary, and you can do simple editing by hand using only the play, pause and record buttons on the video machines. However, this is a very rough and ready method and there's no way you're going to get accurate edits this way, though as a cheap and nasty method it's hard to beat.

Gary Whiteley can be contacted by e-mail at drgaz@cix.compulink.co.uk And, by way of a shameless plug, you could also buy his Amiga Desktop Video book (ISBN 1-898275-08-4) from Future Publishing (Tel: 0225 822510) or from any good bookshop.

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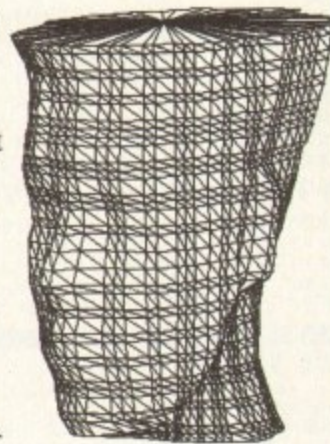
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Last month we were looking at a routine that can be incorporated into any macro that needs to make unit conversion changes (eg lbs to kilos) in blocks of text.

The idea was to use a loop to search for particular combinations, and whenever a number was found at the *i*'th location we set *j* to *i*+1 and compared the *j*'th word with the units parameter. After doing any conversions necessary, the next iteration of the loop was performed.

I said that an improvement could be made and in case you're still wondering what it is, just consider the case where the word\$.j units test is successful.

The next iteration of the loop will then always be pointless because the next word\$.i cannot be a number (since word\$.i of that iteration will be word\$.j of the previous iteration and this matched the specified units string).

This means that we can reduce the work that the routine has to do by eliminating those pointless loop iterations. This is done by incrementing *i* whenever a units match is found:

```
if word$.j=unit$ then
do
word$.i=conversion_factor*word$.i
word$.j=new_unit$
i=i+1
end
```

This simple change produces the ModifyBlock() procedure shown in listing 1. There are faster ways of doing the job but to be honest, when this particular routine was being written speed was not the only concern – flexibility and re-usability were also high on the agenda.

Notice that ModifyBlock() doesn't get involved with any inter-program communication itself. This is deliberate and is done to ensure the generality, and therefore the reusability, of the procedure.

The idea is that you should collect the text from the program in question, do any modifications in 'as application independent way as possible', and then send the replacement text back to the main program.

A typical paragraph-oriented use can be seen

```
ModifyBlock: procedure
parse arg block$,unit$,new_unit$,conversion_factor
numeric digits 4
number_of_words=Words(block$)

do i=1 to number_of_words
word$.i=Word(block$,i) /* extract words from block */
end

do i=1 to number_of_words-1
if DataType(word$.i,'N') then
do
j=i+1
if word$.j=unit$ then
do
word$.i=conversion_factor*word$.i /* more complex conversions */
word$.j=new_unit$ /* could be done using */
i=i+1 /* further procedure calls */
end
end
end

block$=''
do i=1 to number_of_words
block$=block$ word$.i /* rebuild block */
end

return block$
```

Listing 1: The improved procedure provides a good example of the use of local variables

Room for improvement

for instance in this Final Copy II macro fragment:

```
options results
'extract' /* read paragraph */
text$=ModifyBlock(result,'feet','inches',12)
'delete' /* remove existing
paragraph */
'type' text$ /* insert modified
paragraph */
```

In this case 'extract' pulls in the text (notice that the paragraph returned in ARexx's results variable is passed directly to the ModifyBlock() procedure as a parameter).

The 'delete' command removes the original text, and 'type' puts the new text in place. All easy enough to do but as mentioned, the key point is that the ModifyBlock() routine is pure ARexx code – it doesn't rely on any product-specific interface commands.

This brings us to an important general point. ARexx functions are the building blocks of all larger ARexx programs and programmers use them in the same way as the electrical engineer might use integrated circuit chips (electronic components pre-designed to do a particular job) to build an electronic circuit.

A function will perform an operation (perhaps make a calculation or, as in the case of our ModifyBlock() routine, make alterations to selected text block items) and may also return a value to the program which called it.

To use the example routine you supply the text block, the two units strings and a conversion factor. ARexx evaluates the right-hand side of the expression by making a call to

the ModifyBlock() function using the parameters supplied.

It then assigns the function's return value to whatever variable is provided on the left-hand side of the expression that uses the function.

Written properly, a function should behave just like a black box – the function user provides some input (known as the function's parameters or arguments) and the function carries out its job, possibly returning some information to the caller.

To be honest, the user of the function doesn't even need to know how the function works – they just have to know what the function does, what information must be supplied, and the significance of the results produced.

You'll notice that I've tended to call the ModifyBlock() routine a 'procedure' rather than a function. This is to emphasize the fact that I've used the ARexx Procedure instruction at the start of my function definition.

The purpose of this is to force ARexx to regard all the variables used within the function as being local to the ModifyBlock() routine.

If, when you write a function, you use the Procedure keyword and pass all the data required by the function as function arguments rather than use global variables, i.e. variables that are visible throughout the program, then you'll end up with routines that can be easily extracted and re-used.

Needless to say, these types of ideas become more and more important as your ARexx scripts become larger!

ARExx



Following on from last month, Paul Overaa explains how you can reduce the workload of a routine

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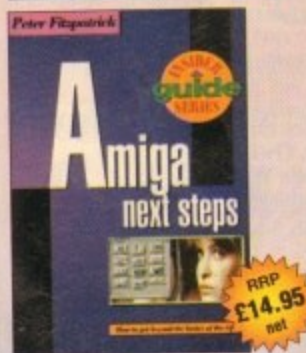
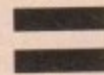
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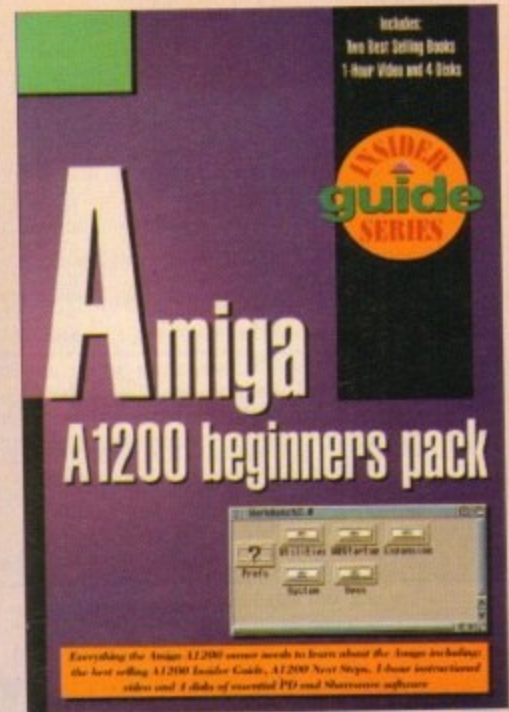
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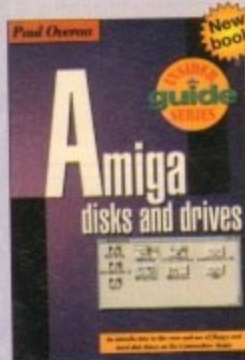
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A one man company, Crystal Haze Graphics has been in operation for the last four years producing various pieces of work for a whole range of clientele but, specifically, the video market.

Run by Simon Hough, a 21 year old entrepreneur and commercial artist, the business has gradually climbed up the ranks from a struggling beginner to a relatively successful and respected firm.

Based at his home in Birmingham (Hough believes that an office for a small operation such as his is a waste of money), Simon has been beavering away on his two Amiga 4000's creating 3D stills and animation for television and video alike.

One machine is used for creating objects while the other busies itself with the lengthy task of rendering. All graphics are created with Imagine but, when Lightwave PAL arrives, Simon intends to jump on the bandwagon of the excellent package.

He first started dabbling in 3D at the age of 17 when this very magazine provided its customers with a Real 3D demo coverdisk. After playing round with it for a few weeks, Hough was hooked.

Flicking through a magazine one day, he came across an advert from Matt Black, part of the pop group Cold Cut, who was looking for computer-designed graphics to include in their latest video.

BREAKTHROUGH

Putting several images on disk, Simon posted his work wholeheartedly believing that he would hear nothing in reply. A couple of days later, Black was on the phone: "I want more of your stuff!"

With the success boosting his confidence, he began to peddle his wares at local video production studios. Hough secured several deals due to his low prices when compared to the competition.

Due to his association with Matt Black, Simon was approached in mid '93 by Melvyn Bragg of the South Bank Show who wanted some animation done for a new series called Opening Shot.

The sequence they were asked to do was a visualisation of a section in Terry Pratchett's book, Only you can save mankind. He only had two weeks in which to produce a space battle sequence for the programme. The end result



As well as video work, Crystal Haze also dabble in other media areas such as BBS's



These images were all produced on Imagine

Blissful union



Some sequences provided for video houses are animated. This example moves in from the side and rotates towards the viewer

was a resounding success, with both Bragg and Pratchett highly impressed with the graphics produced in such a short space of time.

With this arrow to his bow, Hough has continued to steadily climb the career ladder

and earn himself a healthy £18K a year for his work.

Coming up is work on a series of exhibitions for a large freezer manufacturer and for Spender speakers who have asked him to design what will appear on the video walls at an up-and-coming show.

Of course, Hough intends to use the Amiga exclusively for any graphics operations undertaken. He is adamant that Amiga is the best machine for the job: "software support is amazing. Lightwave. Imagine - it goes on."

Various forays in to the PC world and Windows have left him cold - "I don't want to know, I simply don't like it."

At the moment, Simon's burning ambition is to make it in the pop video market where there "is so much scope. You can let your imagination run wild."

With a healthy portfolio of images logged in his hard drive, we may well be seeing the Amiga-fronted Chart Show displaying his name at some point.

Watch your back

A word of caution though for those thinking about setting up their own graphics company. "The biggest mistake you can ever do is to tell people that you use an Amiga. You go to the potential customer and tell him you use an Amiga and they'll say "Oh, my son uses one of those for games, your finished results can't be that good."

Simon continues, "they expect a Silicon Graphics machine or a Pentium PC. I thought that kind of attitude was a rumour when I first started out but it's actual fact."

He believes that if Commodore are ever to break their games-only image, it's going to take a serious turn round in marketing and even a renaming to pull the focus of punters away from the Amiga "game only" label.

"The marketing people at Commodore need to be given the push. Television programmes such as Babylon 5 use the Amiga and Commodore still can't get the machine off the ground."

As for those of us who wish to use the Amiga for something other than games, Hough has these words of advice: "For those people trying to start out, don't get depressed when people put you down. Watch out for individuals trying to exploit you and watch your back."

Crystal Haze Graphics can be reached on 021-421 4835 (after 6 PM, the line becomes a BBS).

The Amiga and video are two words that belong together. Adam Phillips talks to Crystal Haze, a video graphics company

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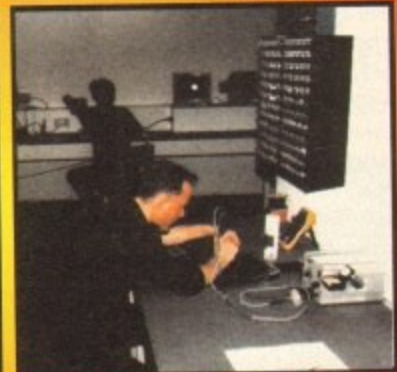


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Most of us, given the chance, like spending a few bob but the chances are that we never have quite enough of the green stuff floating around to buy everything we want.

Software is a typical case so this month I thought I'd look at some of the midi/music PD and shareware offerings that are available. I've chosen the SeaSoft Computing library simply because they seem to provide more music-related offerings than most other libraries.

With SeaSoft's strong MED/OctaMED connections it's not surprising that a great many MED/OctaMED related disks are available.

Total Irrelevance, the disk magazine from MUG (MED Users Group) costs £2.50 and is worth looking at since it always has an interesting selection of articles.

If you want a taste of what it is like then you can in fact get the best of the 1993 issues on a three disk set for £4.50. Other MUG related offerings include the Friends of Paula volumes one to four, which are modules for use with OctaMED, Making Traxs Volume one, Musically Challenged, and Microcraft Volumes one to four.

There are also Drumkit samples Volumes one and two, Bass Sounds, and Brass & Woodwind IFF sample disks available, again courtesy of MUG.

Of course IFF samples are found in abundance throughout the public domain and as well as the obvious sources, such as the disks just mentioned, you can also create your own using a sound sampler.

You can also 'borrow' samples from PD games and demos or other legitimate sources (lots of magazine disks will include sound samples that can be used for your own purposes).

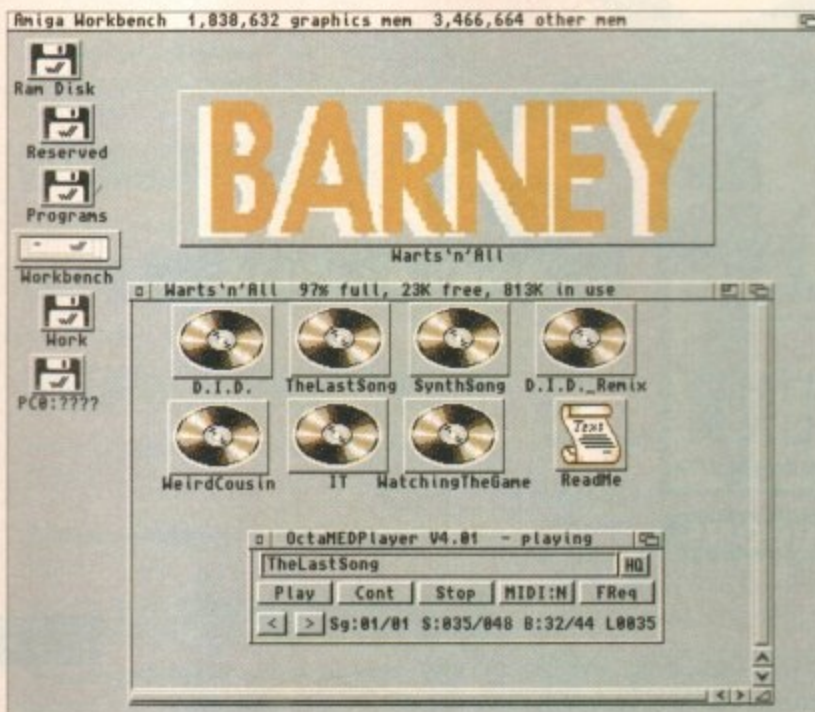
Finding such samples is easy enough if you only have a few directories on the disk - especially if the samples have been given obvious names such as crash.iff, bang.snd or wallop.BSVX.

Locating them when the samples have less intuitive names (eg DX802) can be much harder, especially if the disk has many nested directories. More to the point, it may take a lot of time to look at every file in every directory!

The result of course is that all too often you can miss potentially useful sound samples just because they are not easy to identify. Fortunately there's a nice easy solution - we automate everything and let the Amiga do all the hard work.

I've used a Shell utility called Search for a

Doing it on the cheap



The MED User Group's 'Barney - Warts 'n All' is typical of the (high) standard of ready-made music available. It's a pity you can't hear it playing!

number of years to look not only for BSVX sound samples but all common IFF files (ILBM pictures, SMUS files etc).

It will even find things like Music X MSCX and standard Midi files (SMF Files). This utility, incidentally, was provided on the February '93 cover disk but since it only takes 8k of disk space it's been provided again on this month's cover disk for the benefit of any of you who missed it the first time around!

To use it just open a Shell window and type Search followed by the disk drive to be looked at. Search df0:, for example, will search all of the directories of the disk in drive df0 and give you a list of the required files and their directory locations. This is the sort of output you'll get:

```
Amiga Computing IFF/SMF Search Utility (Paul Overaa 19xx)...
IFF BSVX: df0:FX/s1
IFF BSVX: df0:FX/s2
SMF File: df0:tracks/complete/title.mid
Function Complete
```

If you are searching a high capacity hard disk partition or a floppy with many files and nested directories, the program may take a minute or two to locate the required information but it will be a lot quicker than other methods!

You can, incidentally, cancel the search operation at any time by hitting control-C or control-D. If you need a permanent copy of the program's findings just redirect the screen output to a disk file, or to the PRT device.

And there's more

You'll also find plenty of other Midi/Music items floating around the SeaSoft library. X-Beat Professional for instance is a particularly good shareware drum sequencer.

If you want to learn more about Midi then there is a Midi tutorial disk written by Kevan and Garreth Craft that's worth looking at, and the same authors have also produced a large selection of Music X and Amiga/PC Midi files that are available at £15 per set (with a MidiCraft demo disk available for £1.50).

In addition to this, SeaSoft also distribute the AM/FM disk-based music magazine which now has about 18 issues under its belt. A similar number of AM/FM sample disks are also available along with a variety of other disks containing Midi songs, larger music utilities etc.

There are of course loads of ready-made songs available for use with the freely distributable OctaMEDPlayer module player utility. A

disk called Barney - Warts 'n All provides a good example of the quality available and is just one of the many song collections available nowadays.

In general the disk magazines cost £2.50 per disk and normal PD/shareware utility and sample disks £1.50 (an extra £0.50 for postage and packing needs to be tagged on to each order).

With samples, Midi files, disk mag and tutorial-type disks you'll usually encounter few problems in using the disks but, as with all PD/shareware stuff, not all utility programs will work with all Amigas.

X-Beat Professional V1.0, for example, does not run on my A4000! You'll find the SeaSoft ads in most issues of Amiga Computing and obviously the best idea is to give them a call before ordering, just to confirm that a particular utility will actually run on your machine. SeaSoft Computing can be reached on 0903 850378.

MUSIC



Recession? Oh, that recession! Paul Overaa provides a timely reminder about keeping the cost of your music interests to a reasonable level

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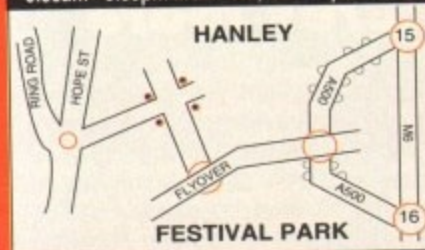
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We all have favourite musicians, don't we? In pubs and at colleges all over the country, indeed all over the world, common ground is formed by the sort of music we are into, the sort of sports we like and the sort of computers we like.

The Net is just an extension of those little items of small talk that we use in real life, so it's only fitting that the Net should have places where you can talk about music.

In your search for bits and bobs about your favourite musicians, your first point of call should be Archie. Do an Archie search using your favourite musician or type of music as the keyword.

This will lead you to a few sites that carry information or pictures of your fave raves. To get you going still further, here's a list of things I've found useful:

● **Electronic/Industrial Music Zine List** – A list of electronic magazines based on electro/industrial music. You can obtain the list using anonymous FTP to:

ftp.spies.com

using the directory path:

/Library/Misc/

and download the file:

electron.zin

and there you are. A whole list of sources about this type of music.

● **CyberSleaze** – The sleaze guide used to be available from mtv.com, but this is now called metaverse.com because the sysop used to work for MTV but got the sack, so MTV won't allow him to use the domain name. Send a message to:

adam@metaverse.com

asking to subscribe to the cybersleaze magazine, or better yet why not cop it via Mosaic at the metaverse WWW server?

● **Techno/Rave Gopher** – Although for the last few days this service has been offline, the Rave gopher is a good source of pictures and info about the Rave scene in both the US and UK. Get it by using Gopher to go to:

techno.stanford.edu



Get pictures of your favourites...

Let's talk about...

● **Song Lyrics Gopher** – If you want to find out the lyrics to a certain favourite song, simply Gopher to:

gopher.micro.umn.edu

and choose the menu:

Fun & Games

then choose:

Music/Music Archives/Lyrics Archives

and just pick your artist from the alphabetical listings.

● **Allmusic Gopher** – Another music gopher is at:

allmusic.ferris.edu

● **Music Archives** – One of the very best music archives is via anonymous FTP at:

ftp.uwp.edu

although you may find it's too busy to get on once the USA wakes up. It's a very popular site and is often swamped.

You might also like to try:

ftp.sunet.se

which is where ftp.uwp.edu get their pictures, and in fact this is where this issue's pictures come from. There's hundreds, so why not go and check them out for your favourite artists?

Also, there is a superb list of music trivia at the excellent Rutgers Gopher site:

quartz.rutgers.edu

which is a place to be recommended for just about any Net surfing you might have in mind, as they have links with a number of other interesting sites. What is there is pretty interesting too, without the need for you to explore further.

I would also recommend RTFM, and MIT Gopher site:

rtfm.mit.edu

which also has some great music material. Quartz, RTFM and Spies are my favourite Internet sites of all of them.

Along with the WELL Gopher, these are the places I visit most often on the Net, as they provide huge resources of information but also provide useful links with similar sources, including in most cases each other.



● Usenet Music Newsgroups

Did you know this Prince's new name?

These are just some of the ones I frequent, Mr Sad that I am, but you can be sure that your favourite music is catered for somewhere on the Net.

alt.fan.frank-zappa
alt.fan.laurie-anderson
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alt.music.brian-eno
alt.music.hardcore
alt.music.peter-gabriel
alt.music.prince
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...including what's his name... Prince?



Phil South explores all the places on the Net where you can get hold of info and pictures and talk about your favourite musicians

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I've done screen wipes before I know, but easy to employ screen transitions, like a piece of lead pipe in your pocket in a dark alley, are comforting to have around.

These ideas are from J Haughey, who has supplied us with three wipe PROCs to get us going. I'd be interested to see some more of this type of PROC, as it's nice to have a little library of useful utils, especially ones which you use a lot.

So here we have three screen wipes, and this is number one. To demonstrate the PROC, we have to load a screen:

```
' *** Wipe1.AMOS
Load If1 "df0:anscreen",0
```

Then we need to activate the PROC:

```
_LFADE1[0,1,4]
```

which we'll do like so for the sake of argument. Later down the program we define the PROC, which as in all Amos programs can be anywhere:

```
Procedure _LFADE1[SCR,DI,CO]
```

How do you use the procedure? Well the format is like so: `_LFADE1[SCR,DI,CO]`, where SCR equals the number of the screen you want the effect to happen, and you have to make sure that the screen exists.

DI equals the effect type (for which you can use the numbers 1 to 5) and CO equals the ink colour you wish the screen to wipe to.

So having set the parameters of the wipe and called it, we have to code the wipe, which in this case goes like this. Set up the screen:

```
Screen SCR
SIX=Screen Width(SCR)-1 : SIY=Screen Height(SCR)-1
Ink CO,0
```

find out which effect you want and draw it to the screen:



Create a screen wipe like this or you may prefer a different outlook

Wipe that smile off

```
If DI=1
For A=0 To SIY Step 2 : Draw 0,A To SIX,A : Next
For A=1 To SIY Step 2 : Draw 0,A To SIX,A : Next
End If
' Effect 2
End If
' Effect 3
If DI=3
For A=0 To SIY Step 2 : Draw 0,A To SIX,A : Next
For A=SIY-2 To 0 Step -2 : Draw 0,A To SIX,A :
Next
End If
' Effect 4
If DI=4
For A=SIY-2 To 0 Step -2 : Draw 0,A To SIX,A :
Next For A=0 To SIY Step 2 : Draw 0,A To SIX,A :
Next
End If
' Effect 5
If DI=5
For A=0 To SIY Step 2 : Draw 0,A To SIX,A : Draw
0,SIY-A+2 To SIX,SIY-A+2 : Next End If
End Proc
```

The wipe is a simple matter of drawing lines to the screen in the ink colour specified. Simple and looks good on screen, so it gets the thumbs up from me. Here is another one which takes the wipe from a different angle:



```
Procedure _HFADE1[SCR,DI,CO]
Screen SCR : Rem set screen
SIX=Screen Width(SCR)-1 : SIY=Screen
Height(SCR)-1 : Rem get screen details
Ink CO,0 : Rem set ink colour
' Effect 1
If DI=1
For A=0 To SIX Step 2 : Draw A,0 To A,SIY : Next
For A=1 To SIX Step 2 : Draw A,0 To A,SIY : Next
End If
' Effect 2
If DI=2
For A=SIX To 0 Step -2 : Draw A,0 To A,SIY :
Next For A=SIX-1 To 0 Step -2 : Draw A,0 To
A,SIY : Next
End If
' Effect 3
If DI=3
For A=0 To SIX Step 2 : Draw A,0 To A,SIY : Next
For A=SIX-2 To 0 Step -2 : Draw A,0 To A,SIY :
Next
End If
' Effect 4
If DI=4
For A=SIX-2 To 0 Step -2 : Draw A,0 To A,SIY :
Next For A=0 To SIX Step 2 : Draw A,0 To A,SIY :
Next
End If
' Effect 5
If DI=5
For A=0 To SIX Step 2 : Draw A,0 To A,SIY : Draw
SIX-A+2,0 To SIX-A+2,SIY : Next End If
End Proc
```

And finally, for a really rip snorting finish, yet another variation. The format this time is: `_SFADE[SCR,DE]`, where SCR equals the number of the screen, and DE equals the delay.

So for example:

```
_SFADE[0,3]
```

will call the Colour Remove effect to work on screen number 0 using a delay of three. Suck it and see:

```
Procedure _SFADE[SCR,DE]
Screen SCR : Rem set screen
NC=Screen Colour-1
For A=0 To NC
Colour A,0
If DE>0 Then Wait DE
Next
End Proc
```

AMOS



Amos guru
Phil South
meditates on
screen wipes.

Write stuff

If you have an Amos question, or a routine you'd like to share with the world, then please write to Phil South, AMOS Column, Amiga Computing, Europa House, Adlington Park, Macclesfield, SK10 4NP.

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EW

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Use a binding that won't let the document remain open and you will annoy your readers. So you have to choose a suitable binding.

The cheapest method of binding is called side-stabbing. You place the pages in order, one on top of the other, then drive wire staples through the left-hand side.

Although cheap and easy, it is a crude method which does not allow the document to be opened easily, nor to remain open. Only use this method if, because of time or costs, there really is no other option.

Rather than side-stab your document, it's better to use plastic grip binders which cost a little more than staples but are just as easy. Most big stationers sell them.

However, do keep in mind that like side-stabbing, plastic grip binders do not allow documents to be opened easily, nor to stay open, plus there is the added disadvantage that if opened very quickly the grip may well fly off at great speed.

The most widespread method of binding and also one of the least costly methods is called saddle-stitch. Here, pairs of pages are printed together on the same sheet. All the sheets are collated, folded in half, and then they are either stitched or wire-stapled together down the fold.

Provided they do not contain too many pages, with a bit of pressure down the fold saddle-stitched documents can usually be opened flat and persuaded to remain open at a certain page.

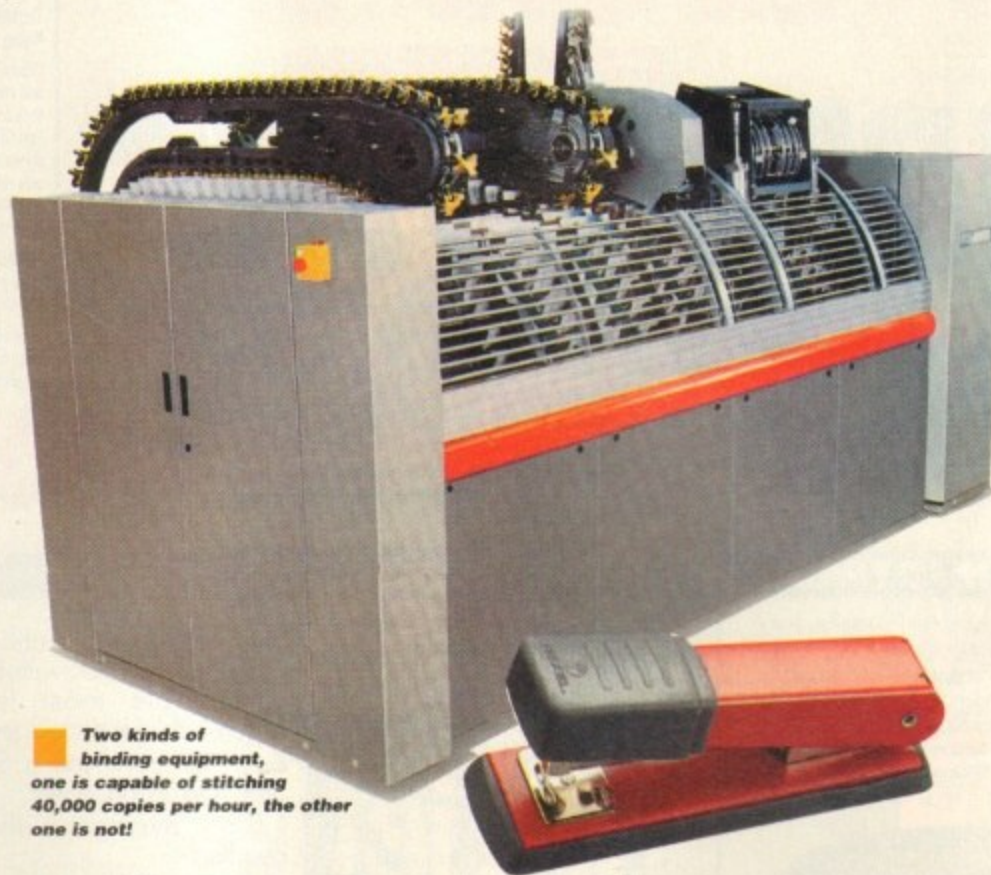
The smaller the format, the fewer pages you can have before the fold gets the upper hand. While a 48-page, A4 format, saddle-stitched document may be persuaded to remain open, an A5 format document of that size would want to close. (Ask Isaac Newton if you want to know why.)

For binding purposes, the pairs of pages have to be printed in a certain order. The exact layout of the pages depends on how many pages fit on to the sheet, but the rule of thumb is that the page numbers of "facing" pages always add up to one more page than there is in the document.

So for a four-page document, page one and four (=five) are a pair (page 1 being the cover), and page two and three (=five) are a pair. If you are providing your artwork to the printers as single pages, then let the printers worry about this, but do ensure that your pagination (page numbering) is correct.

Keep in mind that saddle-stitched documents have to be made up of multiples of four pages.

Bit of a bind



Two kinds of binding equipment, one is capable of stitching 40,000 copies per hour, the other one is not!

You can't have a nine-page document saddle-stitched, it would have to have three blank pages to make it 12.

Most printers prefer to work in multiples of eight, so think about this before you design and lay out your document.

Saddle-stitched documents will also need trimming down the non-stitched length, as the pages in the centre will poke out further than those nearer the covers.

DESIGN

Bear this in mind when designing your pages. It depends on the thickness of the paper, but in a 64-page (32-sheet) document the trim can be as much as 5mm left and right with standard 80 gsm bond paper.

And that size – 64 pages – is about as big as you can go with saddle-stitch without getting an ugly bulge at the fold. You may be able to push it to 96 pages (48 sheets) if the paper isn't too thick, but any bigger than this and you'll either have to have the document stitched in sections and use the cover to bind the sections (hardback

books are normally bound in this way, it's not cheap), or choose another method of binding.

Wire or plastic binding is very popular these days. Many offices have a machine for binding reports and so on in this way. Holes are punched along the left-hand edge of sheets and a wire or plastic clasp is meshed into the holes. For documents that need to lie flat, wire or plastic binding is perfect.

The main disadvantage, apart from the cost if you use wire (even more for plastic-coated wire), is that documents bound in this way are not easy to store because the binding is wider than the publication.

Also, packed on to a bookshelf, wire bindings can get entwined. A solution to this problem is a special type of cover which almost completely covers the wires, but, because of the special equipment needed, this is among the most expensive methods of binding.

Lastly, there are ring binders. Two or four holes are punched down the left-hand side of pages, and these are then threaded on to a fitting in the ring binder.

It is simple, but the ring binders themselves can be expensive. They don't get much cheaper than about £2 each unless you buy in vast quantities. But if your document needs to be regularly updated, and/or needs to lie flat and stay open, ring binders are the best solution.

The only disadvantage, apart from cost, is that the pages can wear at the holes if the document is used regularly. If you do choose ring binders, choose ones that suit the size of the document – there's nothing worse than having half-a-dozen pages flapping about in a binder designed to take hundreds.



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Perfect binding costs a bit more than saddle-stitched, but the results are much neater. It is possible to "break" the binding by folding the document back on itself, in which case pages are liable to drop out, but on the whole perfect binding is good for anything over 32-pages that doesn't have to lie flat and remain open.

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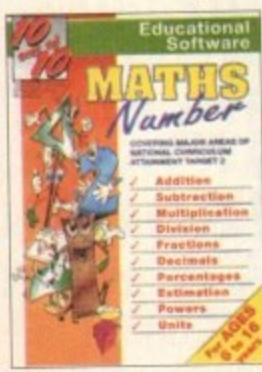
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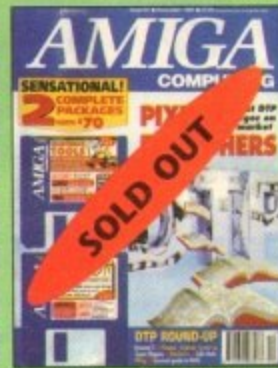
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FEBRUARY



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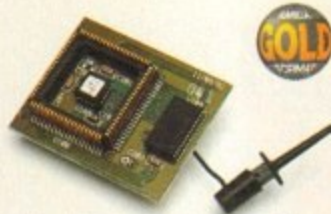
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